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HEALTH SERVICE OCCUPATIONS, OCCUPATIONAL NEEDS, EDUCATIONAL REQUIREMENTS, 1967-1971-1976, CONNECTICUT AND ITS AREAS.

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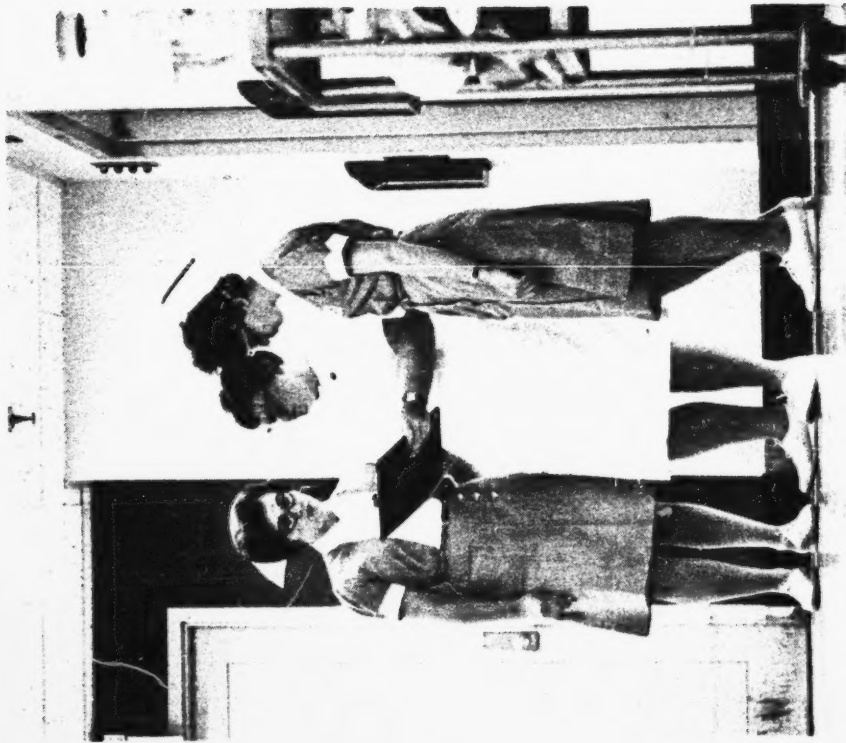
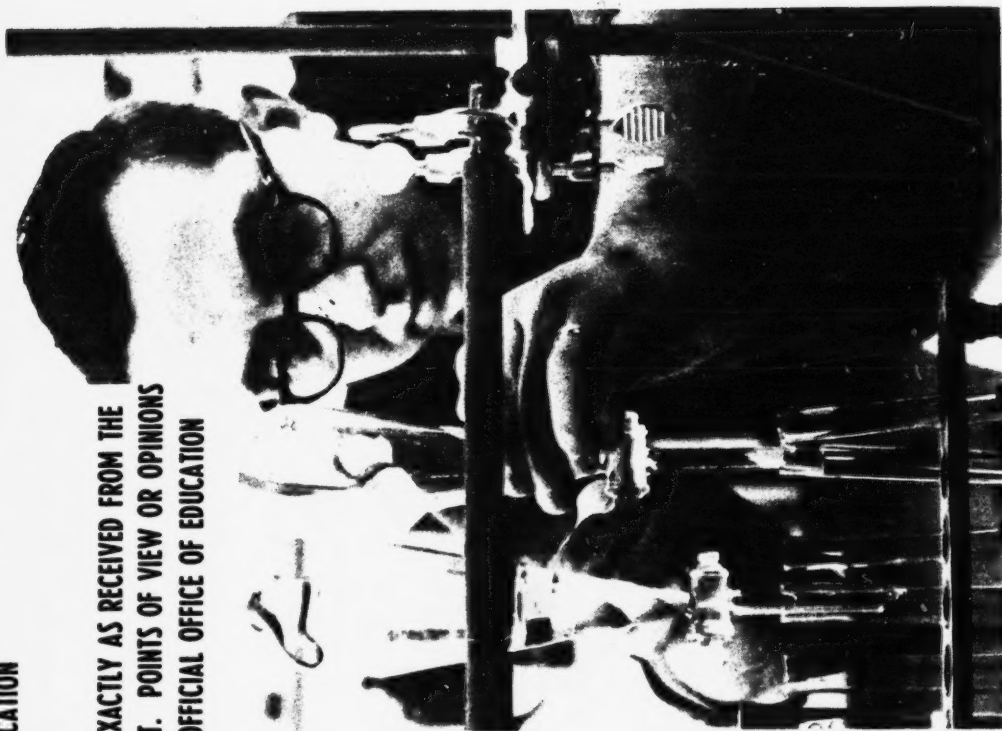
THIS CONNECTICUT STUDY IS AN EXAMPLE OF THE PROCEDURES FOR DETERMINING A REGION'S NEEDS IN THE HEALTH SERVICE OCCUPATIONS. IT DESCRIBES MINIMUM EDUCATIONAL REQUIREMENTS OF VARIOUS OCCUPATIONS AND THE TRAINING FACILITIES AVAILABLE AT THE TIME OF THE STUDY. APPENDIXES SHOW (1) FORM LETTERS AND QUESTIONNAIRES USED, (2) A LIST OF THE FORTY-NINE OCCUPATIONS STUDIED, (3) DEFINITIONS OF THE OCCUPATIONS, AND (4) THE METHOD OF COMPUTING THE EXPECTED NUMBER OF TECHNICIAN REPLACEMENTS NEEDED. THE PLAN OF THE STUDY IS GENERALLY APPLICABLE BY JUNIOR COLLEGES WISHING TO PREDICT THEIR OWN COMMUNITY'S NEEDS AND TO PLAN THEIR OWN HEALTH TECHNICIAN PROGRAMS. (HH)

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Health Service Occupations

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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1967 - 1971 - 1976
Connecticut and its areas

Occupational Needs · Educational Requirements

INTRODUCTION

The need and demand for better health care have resulted in a shortage of both facilities and trained personnel. It is clear that the demand for health care will increase, necessitating an even greater number of trained persons in this field. At the same time a record number of students will be entering high school and post secondary schools seeking education and training for the jobs of tomorrow.

It is the responsibility of the Division of Vocational Education of the Connecticut Department of Education to train youth for jobs. In order to do this, it is necessary to obtain a knowledge of job needs and of the type of training required. While the trained worker need for health occupations in general is apparent, information on the types of occupation in short supply, a reasonable estimate of the number needed in future periods, and the nature of training and course content desired, must be obtained. From this information, the Division of Vocational Education will be able to establish courses which will better meet the manpower needs of the health community, and equally important, which will enable our youths to obtain better and more useful jobs than they would without such training.

To obtain this data, the Division of Vocational Education of the Connecticut Board of Education, Joseph T. Murphy, Director, contracted with the Labor Education Center of the University of Connecticut, Professor John J. Glynn, Director, to conduct this study financed by a grant from the U.S. Department of Health, Education, and Welfare under the Vocational Education Act of 1963. The study was under the general supervision of the Vocational Education Services of the Division, Dr. Herbert Righthand, Director, and Dr. Philip Masley, Research Consultant, and conducted by Professor David Pinsky and Mrs. Barbara Lownds of the University.

The study staff is grateful for the excellent cooperation and suggestions from the many persons and organizations in the health field who supplied data and estimates, and were helpful in other ways.

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Health Occupation Study.

HIGHLIGHTS

- Connecticut will have a need for 59,214 additional trained persons in health services by 1976. This includes nurses but does not include doctors, dentists, and others requiring a college degree.
- By area, the largest needs are: Hartford 16,428, New Haven 7,262, and Bridgeport 7,159.
- Largest needs by occupation are for registered nurses with a demand by 1976 of 20,940.
- In the technician field, the largest needs will be for medical laboratory technician, 1,234, x-ray technician, 653, and operating room technician, 404.
- Dentists indicate a nine-year need of 1,339 dental hygienists, 1,447 dental assistants and 993 secretary-dental assistants.
- Hospital and convalescent home administrators generally prefer three-year diploma school graduates for staff nurses but college graduates for nurse supervisors and nurse instructors.
- English and Mathematics were the most frequently preferred general courses listed. Geriatrics, bedside care, and body mechanics were the most frequently special courses listed.
- Health services, the most rapid employment growth field in the state, employed 52,530 persons in Connecticut in June 1966, a 19,060 or 57% gain in ten years.

HEALTH SERVICES HAVE LARGE GROWTH NATIONALLY

A growing population, extension of the life span, greater concern with health problems, the growth of private and government health insurance plans, Medicare, and a more affluent society have increased the need for health services throughout the nation. Although facilities have been increased in recent years, the growth of the need for more health care has exceeded this increase, resulting in an unprecedented shortage of both trained personnel and facilities. In many areas, demands for health care have outstripped the availability of physicians, nurses, and other trained health workers. Shortages of hospital nurses are especially critical. Lack of sufficient trained health personnel has become a matter of national concern.¹

The health personnel needs below the physician level are centered around nursing. The U.S. Surgeon General's Consultant Group on Nursing stated that there would be a need for 850,000 professional nurses by 1970 for "safe, therapeutically effective, and efficient nursing service." The number of nurses now practicing nationally is approximately 621,000. The rate of growth is such that the number of nurses in 1970 will fall far short of this total. While national figures for related health occupations are not available, it is apparent that similar shortages will also develop for other health occupations such as licensed practical nurses, nurse aides, x-ray technicians, dental hygienists.

The continuing shortage of health personnel is emphasized in the U.S. Labor Department's Occupational Outlook Handbook, which states, "A continued rapid expansion of employment in the health field is expected through the mid-1970's, although the rates of growth will differ considerably among the various health service occupations In addition, many new workers will be needed each year to replace those who retire, die, or - particularly in the case of women - leave the field for other reasons."²

¹ Health Service Industry - U.S. Department of Labor

² Occupational Outlook Handbook, 1966-67 edition. U.S. Department of Labor.

FACILITIES AND SERVICES CONTRIBUTE TO ECONOMY

Health services are thought of mainly in terms of improving physical well-being. They also make a major contribution to the nation's economy. With the decline or leveling off of production jobs since the end of World War II, service activities have been providing the bulk of the new jobs for the expanding labor force. Within this category, health occupations have had the most rapid rate of growth.

The total number of jobs in the health service industry was estimated at 2.7 million in 1965. About three-fourths, or 2 million, of this number were in hospitals. Another 250,000 were in nursing homes. Offices and clinics of physicians, dentists, and other practitioners, together with medical and dental laboratories and related establishments, accounted for the other 450,000.

By occupation the largest number employed were the 1,200,000 in nursing, which was nearly half of all in health occupations. In addition to these employment totals were those self employed or working in their occupation outside the health industry. These include some 275,000 active physicians, 95,000 active dentists and 150,000 professional nurses.

The health industry employs more people than all the railroads and automobile manufacturers combined.

NEED FOR CONNECTICUT STUDY

The growth in health services will undoubtedly continue over the next decade. Required to meet this expansion will be trained personnel as well as physical facilities. The lead training time for health service workers involves not only time for actual class learning and work experience, but also time to prepare curricula and build physical facilities.

In order to plan for the expansion of training programs, some concept of the nature and the number of these increasing jobs must be obtained. The Division of Vocational Education of the Connecticut Department of Education

requested the Labor Education Center of the University of Connecticut to conduct a study for Connecticut and its seventeen labor market areas to determine:

- a. The type and number of trained workers needed for health services jobs by 1971 and 1976
- b. The educational and course content requirements for these jobs

THE STUDY

The selection of the occupations to be studied was made in consultation with key persons in associations representing the various health fields. These included the Connecticut Hospital Association, the Connecticut State Medical Association, the Connecticut State Dental Association, Connecticut State Dental Laboratory Association, the Convalescent Home Association, and Public Health officers. The occupations included not only those directly involved with health services but also supporting occupations such as dietitians, medical secretaries, food service and clerical personnel. In hospitals 38 occupations were studied, 20 in convalescent homes, nine in physicians' offices, six in dentists' offices and dental laboratories, nine in employees health clinics, and 22 in public health. The specific occupations included in each category are shown in the tables showing occupational needs in Appendix B.

To determine future needs, administrators were asked to list for each occupation:

- a. Current Employment - full and part time
- b. Expansion Needs - 1971 and 1976
- c. Expected Withdrawals from the health field
- d. Current Job Vacancies

To determine the content of education courses needed to train personnel for these jobs, the respondents were asked to state for each listed occupation their opinion as to the formal education needed and course content preferred.

The study forms used are shown in Appendix A.

THE CONNECTICUT ECONOMY

The level of the Connecticut Economy in terms of income to its people is the highest in the nation. For 1966 the average per capita income for Connecticut was \$3,678, the highest of any state while per family income for 1967 averaged over \$10,000. There is a wide range in family income however, and in each of the state's four largest cities from 20 to 25% of the families have incomes of \$3,000 a year or less.

The state is characterized by its high proportion of manufacturing with 42% of its workers in this activity, the highest proportion of any state. It also leads all states in total and defense production on a per capita basis. The nature of its production is mainly precision metal, electronic and scientific goods. While manufacturing output has been growing, employment has showed little increase due to productivity gains.

The large increases in jobs have been in trade, service, and government.

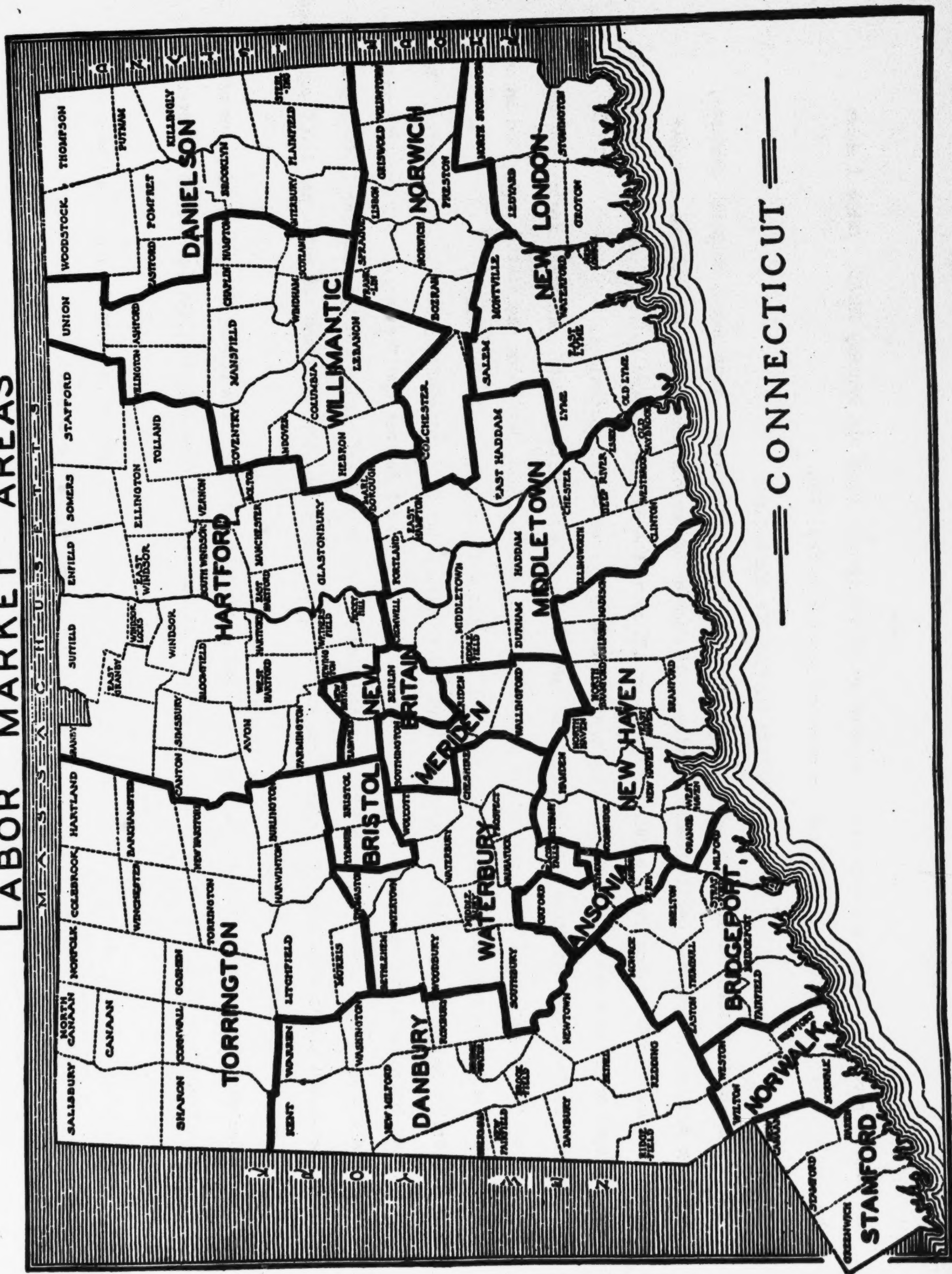
POPULATION LARGEST GROWTH IN NORTHEAST

The population of Connecticut reached 2,914,000 in 1967, a gain of 41,000 during the past year and 521,000 over the past decade. It had the largest rate of population growth in the Northeast and was exceeded in the entire nation only by a few states in the south and far west. By 1975 Connecticut's population is expected to register another gain to 3,462,400, an increase of 548,400. The state has been divided into seventeen labor market areas, each a center of business and industry, reflecting mainly commuting and work patterns. These are shown on the map "Connecticut Labor Market Areas." The largest of these areas in terms of population is Hartford with 637,100 persons followed by Bridgeport 370,200 and New Haven 368,900. Smallest areas are Ansonia 48,500, Danielson 56,700, and Bristol 63,000. The Hartford area is also expected to have the largest population gain, 136,900 or 21.5% by 1976.

Table I
CONNECTICUT POPULATION PROJECTIONS
1967 - 1971 - 1976

	P O P U L A T I O N		G R O W T H 1967 - 76	
	1967	1976	Number	Percentage
Connecticut	2,914,000	3,462,400	548,400	18.8
Ansonia	48,500	57,800	9,300	19.2
Bridgeport	370,200	407,200	37,000	10.0
Bristol	63,000	71,700	8,700	13.8
Danbury	125,800	161,800	36,000	28.6
Danielson	56,700	71,800	15,100	26.6
Hartford	637,100	774,000	136,900	21.5
Meriden	115,600	136,200	20,600	17.8
Middletown	106,400	138,500	32,100	30.2
New Britain	117,000	130,500	13,500	11.5
New Haven	368,900	438,900	70,000	19.0
New London	144,800	170,700	25,900	17.9
Norwalk	125,400	150,100	24,700	19.7
Norwich	66,700	81,100	14,400	21.6
Stamford	214,800	245,900	31,100	14.5
Torrington	80,800	98,500	17,700	21.9
Waterbury	207,300	242,900	35,600	17.2
Windham	65,000	84,800	19,800	30.5

MASSACHUSETTS



The largest percentage gains are expected in Windham 30.5%, Middletown 30.2% and Danbury 28.6%. Table I shows the population for each area for 1967 and the expected population for 1976.

HEALTH SERVICES IN CONNECTICUT

The basic health services are provided by hospitals, convalescent homes, rest homes, doctors, dentists, employees health clinics, and public health services. The number of persons employed in Connecticut by these facilities was 52,530 in June 1966, a gain of 19,060 or 57% above the 33,470 employed in 1956. Of the total 43,970 are employed by private and non-profit institutions and 8,560 in government institutions.

In professional occupations, Connecticut is serviced by 4,943 physicians, 1,873 dentists, and 11,537 nurses. In terms of the proportion of these persons to population, Connecticut ranks high among the states, being 3rd in the ratio of physicians to population, 5th in the ratio of dentists and 4th in the ratio of nurses.

The 35 general hospitals in Connecticut have 9,755 beds, which is a ratio of 3.3 per 1,000 population. The Hill Burton Act Administration considers 3.5 as a minimum desirable level for metropolitan areas, 3.0 for intermediate areas, and 2.5 for rural areas in Connecticut. Within Connecticut the highest ratios are 4.6 beds per 1,000 population in Torrington and 4.2 in Stamford. Table II shows the number of general hospital beds and the ratio per 1,000 population for the state and its labor market areas.

Convalescent homes in Connecticut number 175 and provide 13,201 beds. The number of persons 65 years of age and over is 274,600 or 9% of the state's total. The ratio of convalescent home beds to 1,000 persons 65 and over is 48.1.

To provide facilities for current unmet needs and future demand hospitals and convalescent homes have plans for expansion. The hospitals expect to add 4,196 beds to the current 9,755 for a total of 13,951 by 1976. Existing

Table II

GENERAL HOSPITAL BEDS PER 1,000 POPULATION - 1967

<u>Area</u>	<u>Number</u>	<u>Gen. Hosp. Beds</u>	<u>Gen. Hosp. Beds/1,000 Pop.</u>
Connecticut	35	9,755	3.3
Ansonia	1	185	3.8
Bridgeport	4	1,100	3.0
Bristol	1	200	3.2
Danbury	2	350	2.8
Danielson	1	152	2.7
Hartford	7	2,323	3.6
Meriden	3	359	3.1
Middletown	1	254	2.4
New Britain	1	350	3.0
New Haven	2	1,245	3.4
New London	1	327	2.3
Norwalk	1	495	3.9
Norwich	1	187	2.8
Stamford	3	893	4.2
Torrington	3	371	4.6
Waterbury	2	811	3.9
Widham	1	153	2.4

convalescent and rest homes plan to have 21,214 beds by 1976, an increase of 6,754 beds over the current 14,460. In addition new homes may start which will add to these totals.

The number of employee health clinics totals 255 in the state.

Dental laboratories number 106 in Connecticut.

Public health services include state and local health departments, visiting nurse associations, school nurses, mental health centers, retardation regional centers, and rehabilitation centers.

OCCUPATIONAL NEEDS - 1967 to 1971 - 1976

The study covered 49 different occupations in the health field in which 38,867 persons were employed in June 1967 of whom 27,730 worked full time and 11,127 part time. There were 3,734 vacancies in these positions at the time of the study. Expansion plans in the health field called for 12,182 more positions by 1971 and 16,688 by 1976. Replacement needs for persons who withdraw from their occupations are expected to reach 16,271 within four years and 38,792 within the next nine years. Together the job vacancies, expansions and replacements all add up to a need for 32,187 trained persons by 1971 and 59,214 by 1976. Table III "Estimated Demand - 1967 - 1971 - 1976 - Total of State Needs" (pages 12-16) shows the estimated need for each of the 49 occupations studied for the next four and nine years.

LARGEST OCCUPATIONAL NEED IS FOR NURSES

The occupation with the largest need by 1976 is staff nurse with an estimated demand of 18,992. This consists of 1,084 current vacancies, an expansion of 3,572, and a replacement need of 14,336. The total need for all types of registered nurses is 20,940 within the next nine years. Also in the nursing area there will be a need of 10,201 nurse aides and 4,276 licensed practical nurses.

In the technician area, the largest nine year needs will be for medical laboratory technician, 1,234, x-ray technician, 653, and operating room technician, 404.

For dental occupations, there will be a need for 1,447 dental assistants (chairside only), 1,339 dental hygienists, 993 secretary-dental assistants, and 548 dental laboratory technicians.

The secretary-receptionist position in physicians or dentists offices will have a need for 4,070 new workers by 1976.

In the food field, the largest needs will be for dietary aide, 1,014, cook, 837, and cook helper, 667.

LARGEST EMPLOYMENT NEEDS ARE IN HOSPITALS

The bulk of the 59,214 new workers needed by 1976 will be for hospitals which have reported a need of 31,196 by that date. Second largest needs will be 12,837 new workers for convalescent and rest homes. The other needs will be 5,673 for offices of physicians, 5,442 for offices of dentists, dental laboratories, and dental schools, 3,786 for public health and 280 for employees health clinics.

The four and nine year needs by type of office or institution are shown separately for each occupation in the applicable tables IV-IX (pages 17-28).

Health Occupations Study Connecticut

Table III
Estimated Demand - 1967 to 1971 and 1976

TOTAL OF STATE NEEDS

OCCUPATION	CURRENT EMPLOYMENT		CURRENT VACANCIES	NEW WORKERS NEEDED			
	Total	Full Part		(Year)	Expansion	Replacements	Total
Total (Occupations Studied)	38867	27740 11127	3734	('71) ('76)	12182 16688	16271 38792	32187 59214
Nurse, Supervisor	622	546 76	44	('71) ('76)	139 199	115 282	298 525
Nurse, Head	1034	996 38	55	('71) ('76)	218 327	240 583	513 965
Nurse, Instructor	276	232 44	28	('71) ('76)	54 85	61 145	143 258
Nurse, Staff	9567	5387 4180	1084	('71) ('76)	2347 3572	6100 14336	9531 18992
Nurse Anesthetist	143	128 15	9	('71) ('76)	48 66	54 135	111 210
Nurse, Licensed Practical	2872	2036 836	580	('71) ('76)	1030 1508	909 2188	2519 4276
Nurse Aide	7578	5306 2272	590	('71) ('76)	2573 3431	2543 6180	5706 10201
Mental Retardation Aide	1241	1164 77	58	('71) ('76)	358 570	279 683	695 1311
Psychiatric Aide	1921	1852 69	121	('71) ('76)	157 208	796 1804	1074 2133
Rehabilitation Aide	39	39 0	14	('71) ('76)	41 49	48 122	103 185
							TOTAL

<u>OCCUPATION</u>	<u>CURRENT Total</u>	<u>EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
		<u>Full</u>	<u>Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Orderly	665	418	247	154	('71) ('76)	310 444	394 932	858 1530
Pharmacy Helper	44	32	12	1	('71) ('76)	25 37	17 44	43 82
E.E.G. Technician	43	31	12	1	('71) ('76)	24 36	17 50	42 87
E.K.G. Technician	102	75	27	8	('71) ('76)	38 53	36 92	82 153
X-Ray Technician	460	398	62	29	('71) ('76)	151 219	176 405	356 653
Cytotechnician	64	55	9	11	('71) ('76)	28 41	20 52	59 104
Medical Laboratory Technician	950	716	234	73	('71) ('76)	290 445	308 716	671 1234
Operating Room Technician	230	212	18	35	('71) ('76)	139 187	74 182	248 404
Inhalation Therapist	118	92	26	34	('71) ('76)	87 123	46 113	167 270
Dental Hygienist	595	293	302	118	('71) ('76)	400 468	289 753	807 1339
Dental Assistant (Chairside only)	441	299	142	101	('71) ('76)	441 503	302 843	844 1447
Secretary-Dental Assistant	1067	847	220	40	('71) ('76)	241 271	317 682	598 993
								TOTAL

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>NEW WORKERS NEEDED</u>		<u>REPLACEMENTS</u>	<u>TOTAL</u>
	<u>Total</u>	<u>Full Part</u>	<u>(Year)</u>	<u>Expansion</u>		
Dental Laboratory Technician	319	291 28	('71) ('76)	181 257	110 235	347 548
Formula Room Worker	17	11 6	('71) ('76)	3 5	4 10	8 16
Pediatric Technician	99	83 16	('71) ('76)	22 31	40 99	63 131
Physical Therapist Aide	61	49 12	('71) ('76)	80 112	41 103	137 231
Social Service Case Aide	67	60 7	('71) ('76)	102 141	40 92	158 249
Central Supply Worker	307	280 27	('71) ('76)	74 123	92 209	184 350
Medical Secretary	422	366 56	('71) ('76)	163 237	165 400	363 672
Secretary-Receptionist (Physician or Dentist's office)	3736	2678 1058	('71) ('76)	1053 1194	1186 2727	2388 4070
Bookkeeping Clerk	217	151 66	('71) ('76)	57 78	61 150	123 233
Computer Operator	11	10 1	('71) ('76)	24 31	5 19	29 50
Key Punch Operator	63	47 16	('71) ('76)	42 57	41 104	85 163
Tabulating Machine Operator	11	8 3	('71) ('76)	14 19	8 22	22 41
						TOTAL

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Junior Programmer	4	3 1	1	('71) ('76)	15 23	4 12	20 36
Nursing Unit Clerk	547	361 166	49	('71) ('76)	174 272	194 467	417 788
Medical Record Clerk	19	14 5	5	('71) ('76)	33 35	11 29	49 69
Recreation Director	147	117 30	8	('71) ('76)	75 82	34 95	117 185
Dietitian	230	150 80	22	('71) ('76)	93 122	52 133	167 277
Assistant Dietitian	163	137 26	12	('71) ('76)	43 74	42 105	97 191
Chef	84	83 1	5	('71) ('76)	17 22	16 46	38 73
Cook	897	721 176	43	('71) ('76)	157 201	247 593	447 837
Cook Helper	365	280 85	33	('71) ('76)	162 204	173 430	368 667
Meat Cutter	12	11 1	2	('71) ('76)	3 4	4 10	9 16
Baker	46	43 3	4	('71) ('76)	15 20	13 34	32 58
Food Service Supervisor	80	69 11	3	('71) ('76)	8 11	18 45	29 59
							TOTAL

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Dietary Aide	337	201 136	35	('71) ('76)	208 237	295 742	538 1014
Laundress	185	118 67	5	('71) ('76)	84 97	84 204	173 306
Maintenance-General	352	227 125	20	('71) ('76)	141 157	150 355	311 532

TOTAL

Table IV
Estimated Demand - 1967 to 1971 and 1976
Health Occupations Study Connecticut

HOSPITALS

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS</u> (Year)	<u>Expansion</u>		<u>NEEDED</u>	
	<u>Total</u>	<u>Full Part</u>			<u>Replacements</u>	<u>Replacements</u>	<u>Total</u>	<u>Total</u>
Total (Occupations Studied)	18485	13018 5467	2038	('71) ('76)	4490 7219	9339 21939	15867 31196	
Nurse, Supervisor	505	436 69	34	('71) ('76)	101 155	95 229	230 418	
Nurse, Head	779	747 32	34	('71) ('76)	173 267	178 437	385 738	
Nurse, Instructor	276	232 44	28	('71) ('76)	54 85	61 145	143 258	
Nurse, Staff	5367	2368 2999	684	('71) ('76)	1104 2004	4746 11081	6534 13769	
Nurse Anesthetist	128	118 10	5	('71) ('76)	43 57	51 128	99 190	
Nurse, Licensed Practical	1631	1177 454	349	('71) ('76)	495 813	522 1255	1366 2417	
Nurse Aide	3084	2277 807	276	('71) ('76)	691 1110	1152 2675	2119 4061	
Psychiatric Aide	1869	1804 65	109	('71) ('76)	104 123	773 1725	986 1957	
Rehabilitation Aide	39	39 0	14	('71) ('76)	35 43	47 120	96 177	
Orderly	505	318 187	120	('71) ('76)	179 292	312 727	611 1139	
								HOSPITALS

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Pharmacy Helper	44	32 12	1	('71) ('76)	25 37	17 44 43 82
E.E.G. Technician	37	29 8	1	('71) ('76)	22 33	16 45 39 79
E.K.G. Technician	101	74 27	8	('71) ('76)	38 53	36 92 82 153
X-Ray Technician	343	293 50	24	('71) ('76)	106 174	105 238 235 436
Cytology Technician	64	55 9	11	('71) ('76)	28 41	20 52 59 104
Medical Laboratory Technician	678	504 174	60	('71) ('76)	205 332	182 440 447 832
Operating Room Technician	230	212 18	35	('71) ('76)	139 187	74 182 248 404
Inhalation Therapist	118	92 26	34	('71) ('76)	87 123	46 113 167 270
Formula Room Worker	17	11 6	1	('71) ('76)	3 5	4 10 8 16
Pediatric Technician	99	83 16	1	('71) ('76)	22 31	40 99 63 131
Physical Therapist Aide	49	43 6	9	('71) ('76)	41 61	23 59 73 129
Social Service Case Aide	63	56 7	13	('71) ('76)	76 105	32 74 121 192
						HOSPITALS

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Central Supply Worker	305	278 27	18	('71) ('76)	71 118	92 209	181 345
Medical Secretary	346	298 48	31	('71) ('76)	138 203	127 308	296 542
Bookkeeping Clerk	211	146 65	4	('71) ('76)	51 70	57 141	112 215
Computer Operator	11	10 1	0	('71) ('76)	24 31	5 19	29 50
Key Punch Operator	61	45 16	2	('71) ('76)	41 56	39 100	82 158
Tabulating Machine Operator	11	8 3	0	('71) ('76)	14 19	8 22	22 41
Junior Programmer	4	3 1	1	('71) ('76)	15 23	4 12	20 36
Nursing Unit Clerk	542	376 166	49	('71) ('76)	166 261	191 458	406 768
Dietitian	159	132 27	14	('71) ('76)	38 62	39 92	91 168
Assistant Dietitian	163	137 26	12	('71) ('76)	43 74	42 105	97 191
Chef	74	73 1	4	('71) ('76)	9 14	16 44	29 62
Cook	295	280 15	25	('71) ('76)	43 62	76 191	144 278

HOSPITALS

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>		<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full</u> <u>Part</u>			<u>(Year)</u>	<u>Expansion</u> <u>Replacements</u>	<u>Total</u>
Cook Helper	156	126 30	20		('71) ('76)	43 80 64 191	143 275
Meat Cutter	12	11 1	2		('71) ('76)	3 4 4 10	9 16
Baker	44	41 3	4		('71) ('76)	15 12 19 32	31 55
Food Service Supervisor	65	54 11	1		('71) ('76)	5 15 8 35	21 44

HOSPITALS

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Table V
Estimated Demand - 1967 to 1971 and 1976
CONVALESCENT AND REST HOMES

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Total (Occupations Studied)	8937	5714 3223	933	('71) ('76)	3801 4549	2951 7355 7685 12837
Nurse, Supervisor	17	15 2	4	('71) ('76)	24 25	6 17 34 46
Nurse, Head	231	228 3	11	('71) ('76)	26 27	58 128 95 166
Nurse, Staff	1480	745 735	260	('71) ('76)	603 717	411 1012 1274 1989
Nurse, Licensed Practical	959	589 370	203	('71) ('76)	395 503	265 646 863 1352
Nurse Aide	4309	2890 1419	306	('71) ('76)	1818 2219	1298 3292 3422 5817
Rehabilitation Aide	0	0 0 0	0	('71) ('76)	6 6	1 2 7 8
Orderly	160	100 60	34	('71) ('76)	129 148	81 203 244 385
Medical Laboratory Technician	0	0 0 0	0	('71) ('76)	2 2	0 0 2 2
Physical Therapist Aide	9	4 5	7	('71) ('76)	14 16	6 15 27 38
Recreation Director	147	117 30	8	('71) ('76)	75 82	34 95 117 185

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Dietitian	65	14 51	7	('71) ('76)	47 52	13 40 67 99
Chef	2	2 0	1	('71) ('76)	2 2	0 0 3 3
Cook	490	331 159	15	('71) ('76)	89 105	155 360 259 480
Cook Helper	172	117 55	9	('71) ('76)	99 113	82 210 190 332
Food Service Supervisor	1	1 0	1	('71) ('76)	3 3	0 2 4 6
Dietary Aide	337	201 136	35	('71) ('76)	208 237	295 742 538 1014
Medical Secretary	2	1 1	2	('71) ('76)	3 3	1 3 6 8
Medical Record Clerk	19	14 5	5	('71) ('76)	33 35	11 29 49 69
Laundress	185	118 67	5	('71) ('76)	84 97	84 204 173 306
Maintenance-General	352	227 125	20	('71) ('76)	141 157	150 355 311 532

CONV. & BEST HOMES

Table VI
Estimated Demand - 1967 to 1971 and 1976
OFFICES OF PHYSICIANS IN PRIVATE PRACTICE

PHYSICIANS

Health Occupations
Study
Connecticut

Table VII

Estimated Demand - 1967 to 1971 and 1976

OFFICES OF DENTISTS IN PRIVATE PRACTICE,
DENTAL LABORATORIES AND DENTAL SCHOOL

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Total (Occupations Studied)	2890	2112 778	341	('71) ('76)	1543 1834	1328 3267
Nurse, Staff	54	40 14	13	('71) ('76)	20 31	32 67
Dental Hygienist	540	247 293	112	('71) ('76)	395 462	274 715
Dental Assistant (Chairside)	441	299 142	101	('71) ('76)	441 503	302 843
Secretary-Dental Assistant (combined)	1067	847 220	40	('71) ('76)	241 271	317 682
Secretary-Receptionist	469	388 81	19	('71) ('76)	265 310	293 725
Dental Laboratory Technician	319	291 28	56	('71) ('76)	181 257	110 235
						577 1054
						347 548

DENTISTS

Table VIII
Estimated Demand - 1967 to 1971 and 1976
PUBLIC HEALTH

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Total (Occupations Studied)	2795	2490 305	169	('71) ('76)	961 1487	838 2130 1968 3786
Nurse, Supervisor	76	71 5	6	('71) ('76)	13 18	11 29 30 53
Nurse, Head	24	21 3	10	('71) ('76)	19 33	4 18 33 61
Nurse, Staff	1045	860 185	57	('71) ('76)	238 381	379 964 674 1402
Nurse, Licensed Practical	31	29 2	2	('71) ('76)	54 84	23 60 79 146
Nurse Aide	30	20 10	2	('71) ('76)	57 85	24 57 83 144
Mental Retardation Aide	1241	1164 77	58	('71) ('76)	358 570	279 683 695 1311
Psychiatric Aide	52	48 4	12	('71) ('76)	53 85	23 79 88 176
Orderly	0	0 0 0	0	('71) ('76)	2 4	1 2 3 6
E.E.G. Technician	2	2 0	0	('71) ('76)	1 1	1 3 2 4
X-Ray Technician	8	7 1	0	('71) ('76)	3 3	2 6 5 9

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>		<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>	<u>Total</u>	<u>Full Part</u>	<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Medical Laboratory Technician	16	16	0	2	(171) (176)	10 16	7 11
Dental Hygienist	45	36	9	6	(171) (176)	5 6	11 31
Physical Therapist Aide	3	2	1	0	(171) (176)	25 35	12 29
Social Service Case Aide	4	4	0	3	(171) (176)	26 36	8 18
Central Supply Worker	2	2	0	0	(171) (176)	3 5	0 0
Medical Secretary	24	21	3	1	(171) (176)	20 29	13 34
Bookkeeping Clerk	6	5	1	1	(171) (176)	6 8	4 9
Key Punch Operator	2	2	0	0	(171) (176)	1 1	2 4
Nursing Unit Clerk	5	5	0	0	(171) (176)	8 11	3 9
Dietitian	6	4	2	1	(171) (176)	8 8	0 1
Chef	8	8	0	0	(171) (176)	6 6	0 2
Cook	112	110	2	3	(171) (176)	25 34	16 42

PUBLIC HEALTH

<u>OCCUPATION</u>	<u>CURRENT Total</u>	<u>EMPLOYMENT Full Part</u>	<u>CURRENT VACANCIES</u>	<u>NEW (Year)</u>	<u>Expansion</u>	<u>REPLACEMENTS Replacements</u>	<u>NEEDED Total</u>
Cook Helper	37	37 0	4	('71) ('76)	20 27	11 29	35 60
Baker	2	2 0	0	('71) ('76)	0 1	1 2	1 3
Food Service Supervisor	14	14 0	1	('71) ('76)	0 0	3 8	4 9

PUBLIC HEALTH

Health Occupations
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Table IX
Estimated Demand - 1967 to 1971 and 1976

EMPLOYEES HEALTH CLINICS

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>	
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u> <u>Expansion</u>	<u>Replacements</u> <u>Total</u>
Total (Occupations Studied)	593	572 21	4	('71) 28 ('76) 31	107 139 245 280
Nurse, Supervisor	24	24 0	0	('71) 1 ('76) 1	3 4 7 8
Nurse, Staff	459	440 19	3	('71) 24 ('76) 27	70 97 159 189
Nurse, Licensed Practical	10	10 0	0	('71) 0 ('76) 0	1 1 4 4
First Aider	19	17 2	0	('71) 2 ('76) 2	7 9 15 17
E.K.G. Technician	1	1 0	0	('71) 0 ('76) 0	0 0 0 0
X-Ray Technician	20	20 0	0	('71) 0 ('76) 0	1 1 5 5
Medical Laboratory Technician	16	16 0	1	('71) 0 ('76) 0	4 5 9 10
Dental Hygienist	10	10 0	0	('71) 0 ('76) 0	4 4 7 7
Medical Secretary	34	34 0	0	('71) 1 ('76) 1	17 18 39 40

EMPLOYEES HEALTH CLINICS

NEED FOR HEALTH WORKERS WIDESPREAD THROUGHOUT THE STATE

Every area in Connecticut will have a substantial demand for new health workers by 1976. The largest is in the Hartford area with a need for 16,428 by 1976. Following Hartford in the number needed is New Haven 7,262, Bridgeport 7,159, Waterbury 4,258, and Stamford 3,971. The area needs are summarized in Table X (pages 30-31) "Estimated Demand - 1967 - 1971 - 1976 - Totals - Labor Market Areas."

The specific occupational demands for each area are shown in Tables XI-XXVII (pages 32-103).

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Table I
Estimated Demand - 1967 to 1971 and 1976
LABOR MARKET AREA

	CURRENT EMPLOYMENT		CURRENT VACANCIES	NEW WORKERS NEEDED	
	<u>Total</u>	<u>Full</u> <u>Part</u>		(Year) <u>Expansion</u> <u>Replacements</u>	<u>Total</u>
Connecticut	38867	27740 11127	3734	('71) 12182 ('76) 16688	32187 59214
Ansonia	521	298 223	28	('71) 131 ('76) 178	393 774
Bridgeport	4479	3210 1269	558	('71) 1247 ('76) 1930	3764 7159
Bristol	565	367 198	30	('71) 211 ('76) 259	548 1027
Danbury	1677	1278 399	94	('71) 500 ('76) 584	1287 2311
Danielson	609	361 248	26	('71) 168 ('76) 282	394 809
Hartford	8657	6074 2583	1006	('71) 3874 ('76) 5469	8916 16428
Meriden	1647	1080 567	120	('71) 668 ('76) 945	1418 2670
Middletown	1924	1462 462	132	('71) 431 ('76) 582	1434 2738
New Britain	1383	921 462	109	('71) 373 ('76) 441	1097 1986
New Haven	4998	3743 1255	552	('71) 1311 ('76) 2005	3874 7262
					LABOR MARKET AREA

<u>Labor Market Area</u>	<u>CURRENT</u> <u>Total</u>	<u>EMPLOYMENT</u> <u>Full</u> <u>Part</u>	<u>CURRENT</u> <u>VACANCIES</u>	<u>NEW</u> <u>(Year)</u>	<u>WORKERS</u> <u>Expansion</u>	<u>NEEDED</u> <u>Replacements</u>	<u>Total</u>
New London	1301	932 369	133	('71) ('76)	305 342	471 1104	909 1579
Norwalk	1278	922 356	89	('71) ('76)	228 305	483 1121	800 1515
Norwich	1893	1533 360	136	('71) ('76)	171 216	756 1639	1063 1991
Stamford	2753	1825 928	294	('71) ('76)	1063 1248	984 2429	2341 3971
Torrington	896	611 285	61	('71) ('76)	342 503	355 875	758 1439
Waterbury	3204	2215 989	277	('71) ('76)	914 1039	1314 2942	2505 4258
Willimantic	1082	908 174	89	('71) ('76)	245 360	352 848	686 1297

LABOR MARKET AREA

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Table XI
Estimated Demand - 1967 to 1971 and 1976
ANSONIA LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Total (Occupations Studied)	521	298 223	28	('71) ('76)	131 178	234 568
Nurse, Supervisor	12	8 4	0	('71) ('76)	0 0	1 2
Nurse, Head	17	17 0	0	('71) ('76)	3 6	4 11
Nurse, Instructor	3	3 0	0	('71) ('76)	1 1	1 2
Nurse, Staff	180	70 110	17	('71) ('76)	19 31	117 266
Nurse Anesthetist	4	4 0	0	('71) ('76)	0 0	2 5
Nurse, Licensed Practical	38	20 18	2	('71) ('76)	11 16	10 26
Nurse Aide	104	63 41	2	('71) ('76)	26 35	35 90
Orderly	5	3 2	2	('71) ('76)	7 9	4 11
Pharmacy Helper	2	0 2	0	('71) ('76)	0 0	0 0
E.E.G. Technician	1	0 1	0	('71) ('76)	1 2	1 2

ANSONIA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
E.K.G. Technician	1	1 0	0	('71) ('76)	1 2	2 4
X-Ray Technician	8	8 0	0	('71) ('76)	3 7	6 11
Cytotechnician	2	2 0	0	('71) ('76)	1 3	3 5
Medical Laboratory Technician	20	13 7	0	('71) ('76)	7 16	13 25
Operating Room Technician	3	2 1	0	('71) ('76)	0 2	1 5
Inhalation Therapist	3	3 0	0	('71) ('76)	2 6	5 10
Dental Hygienist	7	3 4	1	('71) ('76)	3 10	9 16
Dental Assistant (Chairside only)	3	2 1	0	('71) ('76)	3 6	7 10
Secretary-Dental Assistant	14	11 3	1	('71) ('76)	3 8	7 12
Dental Laboratory Technician	2	2 0	0	('71) ('76)	1 1	1 2
Physical Therapist Aide	2	2 0	0	('71) ('76)	1 3	3 6
Social Service Case Aide	0	0 0	0	('71) ('76)	0 0	1 1
Medical Secretary	5	5 0	0	('71) ('76)	1 2	3 7

ANSONIA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full</u> <u>Part</u>		<u>(Year)</u> <u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Secretary-Receptionist (Physician or Dentists' Office)	45	33 12	2	('71) ('76)	14 15	31 54
Bookkeeping Clerk	2	2 0	0	('71) ('76)	1 2	3 7
Computer Operator	0	0 0	0	('71) ('76)	1 1	1 1
Key Punch Operator	0	0 0	0	('71) ('76)	2 2	2 3
Tabulating Machine Operator	0	0 0	0	('71) ('76)	1 1	1 2
Nursing Unit Clerk	5	5 0	0	('71) ('76)	1 2	3 7
Recreation Director	2	1 1	0	('71) ('76)	1 1	1 2
Dietitian	2	1 1	0	('71) ('76)	1 1	1 2
Cook	8	6 2	0	('71) ('76)	1 1	4 7
Cook Helper	11	4 7	1	('71) ('76)	3 5	9 18
Baker	1	0 1	0	('71) ('76)	0 0	0 1
Food Service Supervisor	4	3 1	0	('71) ('76)	0 0	1 3
Dietary Aide	1	0 1	0	('71) ('76)	3 3	4 7

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Laundress	1	0 1	0	('71) ('76)	1 1	2 4	3 5
Maintenance-General	3	1 2	0	('71) ('76)	1 1	1 2	2 3

**Health Occupations
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Table XII
Estimated Demand - 1967 to 1971 and 1976

BRIDGEPORT LABOR MARKET AREA

OCCUPATION	CURRENT Total	EMPLOYMENT		CURRENT VACANCIES	NEW WORKERS NEEDED			
		Full	Part		(Year)	Expansion	Replacements	Total
Total (Occupations Studied)	4479	3210	1269	558	('71) ('76)	1247 1930	1959 4671	3764 7159
Nurse, Supervisor	74	60	14	9	('71) ('76)	15 22	14 32	38 63
Nurse, Head	99	96	3	3	('71) ('76)	22 46	26 69	51 118
Nurse, Instructor	31	25	6	3	('71) ('76)	2 2	6 13	11 18
Nurse, Staff	1126	667	459	149	('71) ('76)	233 436	754 1738	1136 2323
Nurse Anesthetist	21	19	2	2	('71) ('76)	18 22	11 30	31 54
Nurse, Licensed Practical	447	316	131	77	('71) ('76)	122 218	154 371	353 666
Nurse Aide	949	719	230	105	('71) ('76)	112 219	279 683	496 1007
Mental Retardation Aide	12	12	0	0	('71) ('76)	25 25	4 11	29 36
Psychiatric Aide	0	0	0	0	('71) ('76)	21 53	3 17	24 70
Rehabilitation Aide	1	1	0	10	('71) ('76)	8 8	23 56	41 74

BRIDGEPORT

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Orderly	80	60 20	21	('71) ('76)	36 51	121 218
Pharmacy Helper	3	3 0	0	('71) ('76)	0 2	2 6
E.E.G. Technician	2	1 1	0	('71) ('76)	2 4	2 7
E.K.G. Technician	13	9 4	2	('71) ('76)	4 6	9 16
X-Ray Technician	61	51 10	5	('71) ('76)	15 25	37 75
Cytotechnician	8	8 0	2	('71) ('76)	4 7	7 14
Medical Laboratory Technician	126	92 34	10	('71) ('76)	34 48	86 155
Operating Room Technician	16	12 4	17	('71) ('76)	40 51	72 106
Inhalation Therapist	8	3 5	1	('71) ('76)	4 4	9 14
Dental Hygienist	88	47 41	20	('71) ('76)	66 79	135 224
Dental Assistant (Chairside only)	82	60 22	20	('71) ('76)	81 94	158 272
Secretary-Dental Assistant	173	134 39	5	('71) ('76)	40 46	99 163

BRIDGEPORT

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>		<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full</u> <u>Part</u>	<u>VACANCIES</u>		<u>(Year)</u>	<u>Expansion</u> <u>Replacements</u>	<u>Total</u>
Dental Laboratory Technician	56	52 4	9		('71) ('76)	20 34	19 40
Formula Room Worker	1	1 0	0		('71) ('76)	0 0	0 0
Pediatric Technician	6	5 1	0		('71) ('76)	0 3	2 6
Physical Therapist Aide	2	1 1	2		('71) ('76)	7 12	2 8
Social Service Case Aide	2	2 0	2		('71) ('76)	8 10	3 7
Central Supply Worker	37	31 6	4		('71) ('76)	17 30	10 22
Medical Secretary	59	47 12	6		('71) ('76)	38 58	25 67
Secretary-Receptionist (Physician or Dentist's office)	513	370 143	20		('71) ('76)	144 162	165 377
Bookkeeping Clerk	11	9 2	1		('71) ('76)	5 6	1 5
Computer Operator	1	0 1	0		('71) ('76)	2 4	1 3
Key Punch Operator	4	2 2	1		('71) ('76)	7 11	3 8
Tabulating Machine Operator	0	0 0	0		('71) ('76)	1 1	1 2

BRIDGEPORT

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Junior Programmer	1	1 0	0	('71) ('76)	4 5	2 5	6 10
Nursing Unit Clerk	76	59 17	20	('71) ('76)	33 37	40 91	93 148
Medical Record Clerk	2	2 0	1	('71) ('76)	3 3	2 4	6 8
Recreation Director	18	16 2	0	('71) ('76)	1 1	6 15	7 16
Dietitian	30	19 11	5	('71) ('76)	10 20	7 19	22 44
Assistant Dietitian	11	10 1	2	('71) ('76)	3 7	2 6	7 15
Chef	5	5 0	1	('71) ('76)	1 2	1 4	3 7
Cook	61	49 12	7	('71) ('76)	11 15	17 47	35 69
Cook Helper	37	33 4	5	('71) ('76)	11 16	14 32	30 53
Meat Cutter	1	1 0	0	('71) ('76)	1 2	0 2	1 4
Baker	3	2 1	0	('71) ('76)	1 1	1 3	2 4
Food Service Supervisor	4	4 0	0	('71) ('76)	0 0	1 2	1 2

BRIDGEPORT

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Dietary Aide	35	24 11	6	('71) ('76)	5 6	37 73
Laundress	18	14 4	1	('71) ('76)	2 3	10 20
Maintenance-General	65	56 9	4	('71) ('76)	6 11	31 66

Health Occupations
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Table XIII
Estimated Demand - 1967 to 1971 and 1976

BRISTOL LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Total (Occupations Studied)	565	367 198	30	('71) ('76)	211 259	307 738 548 1027
Nurse, Supervisor	13	10 3	2	('71) ('76)	2 2	1 2 5 6
Nurse, Head	17	17 0	1	('71) ('76)	7 7	5 11 13 19
Nurse, Instructor	3	3 0	1	('71) ('76)	1 1	1 2 3 4
Nurse, Staff	181	81 100	14	('71) ('76)	38 41	112 254 164 309
Nurse Anesthetist	6	6 0	0	('71) ('76)	0 0	1 2 1 2
Nurse, Licensed Practical	118	81 37	2	('71) ('76)	31 32	66 158 99 192
Nurse Aide	36	25 11	2	('71) ('76)	43 68	44 102 89 172
Orderly	13	4 9	2	('71) ('76)	7 10	10 26 19 38
Pharmacy Helper	0	0 0	0	('71) ('76)	1 2	2 5 3 7
E.E.G. Technician	0	0 0	0	('71) ('76)	1 2	0 3 1 5

OCCUPATION	CURRENT EMPLOYMENT		CURRENT VACANCIES	NEW WORKERS NEEDED	
	Total	Full Part		(Year)	Expansion Replacements Total
E.K.G. Technician	0	0 0	0	('71) ('76)	1 0 5 3
X-Ray Technician	7	7 0	0	('71) ('76)	10 5 18 13
Cytotechnician	1	1 0	0	('71) ('76)	1 0 2 1
Medical Laboratory Technician	18	14 4	1	('71) ('76)	12 6 22 15
Operating Room Technician	8	8 0	0	('71) ('76)	4 4 10 9
Inhalation Therapist	5	5 0	1	('71) ('76)	10 4 19 12
Dental Hygienist	8	5 3	1	('71) ('76)	11 4 18 11
Dental Assistant (Chairside only)	4	3 1	1	('71) ('76)	7 2 13 8
Secretary-Dental Assistant	14	12 2	0	('71) ('76)	7 4 12 9
Dental Laboratory Technician	3	3 0	0	('71) ('76)	2 1 4 2
Physical Therapist Aide	1	1 0	0	('71) ('76)	2 0 4 2
Social Service Case Aide	1	1 0	0	('71) ('76)	0 0 0 0
Central Supply Worker	7	7 0	0	('71) ('76)	3 1 6 1

BRISTOL

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Medical Secretary	8	5 3	0	('71) ('76)	6 6	2 7 8 13
Secretary-Receptionist (Physician or Dentist's office)	60	43 17	2	('71) ('76)	17 20	20 45 39 67
Bookkeeping Clerk	1	1 0	0	('71) ('76)	0 0	0 0
Computer Operator	0	0 0	0	('71) ('76)	1 1	0 0 1 1
Key Punch Operator	1	1 0	0	('71) ('76)	0 1	1 2 1 3
Tabulating Machine Operator	0	0 0	0	('71) ('76)	1 1	1 2 2 3
Junior Programmer	0	0 0	0	('71) ('76)	0 1	0 0 0 1
Nursing Unit Clerk	7	7 0	0	('71) ('76)	5 7	2 7 7 14
Medical Record Clerk	0	0 0	0	('71) ('76)	1 1	0 1 1 2
Recreation Director	2	2 0	0	('71) ('76)	1 1	0 1 1 2
Dietitian	2	1 1	0	('71) ('76)	2 3	1 2 3 5
Assistant Dietitian	2	2 0	0	('71) ('76)	1 1	0 1 1 2
Chef	0	0 0	0	('71) ('76)	1 1	0 0 1 1

BRISTOL

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Cook	8	6 2	0	('71) ('76)	2 5	4 8
Cook Helper	2	2 0	0	('71) ('76)	1 3	4 6
Baker	0	0 0	0	('71) ('76)	0 1	1 2
Dietary Aide	2	1 1	0	('71) ('76)	1 2	3 4
Laundress	3	1 2	0	('71) ('76)	1 2	2 3
Maintenance-General	3	1 2	0	('71) ('76)	1 2	2 3

BRISTOL

Health Occupations
Study
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Table XIV
Estimated Demand - 1967 to 1971 and 1976
DANBURY LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		(Year) Expansion (Year) Replacements	Total	Total
Total (Occupations Studied)	1677	1278 399	94	('71) 500 ('76) 584	693 1633	1287 2311
Nurse, Supervisor	42	40 2	0	('71) 3 ('76) 3	7 16	10 19
Nurse, Head	49	44 5	1	('71) 9 ('76) 9	12 28	22 38
Nurse, Instructor	6	6 0	0	('71) 0 ('76) 0	1 2	1 2
Nurse, Staff	338	160 178	19	('71) 83 ('76) 94	214 494	316 607
Nurse Anesthetist	6	5 1	0	('71) 0 ('76) 0	1 3	1 3
Nurse, Licensed Practical	53	32 21	6	('71) 36 ('76) 40	20 48	62 94
Nurse Aide	175	120 55	7	('71) 99 ('76) 109	61 151	167 267
Mental Retardation Aide	0	0 0	0	('71) 16 ('76) 49	2 13	18 62
Psychiatric Aide	456	456 0	13	('71) 67 ('76) 67	192 432	272 512
Rehabilitation Aide	11	11 0	0	('71) 1 ('76) 1	5 13	6 14

DANBURY

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Orderly	16	4 12	1	('71) ('76)	6 7	14 26
E.E.G. Technician	1	1 0	0	('71) ('76)	0 0	0 1
E.K.G. Technician	7	6 1	0	('71) ('76)	1 1	3 6
X-Ray Technician	19	16 3	2	('71) ('76)	6 6	15 26
Cytotechnician	4	3 1	0	('71) ('76)	1 1	3 5
Medical Laboratory Technician	37	31 6	2	('71) ('76)	15 16	30 47
Operating Room Technician	12	12 0	0	('71) ('76)	1 1	3 5
Inhalation Therapist	3	3 0	3	('71) ('76)	1 1	5 7
Dental Hygienist	22	8 14	4	('71) ('76)	14 18	28 50
Dental Assistant (Chairside only)	12	8 4	3	('71) ('76)	12 15	23 39
Secretary-Dental Assistant	39	31 8	1	('71) ('76)	8 9	20 33
Dental Laboratory Technician	7	7 0	1	('71) ('76)	3 5	6 11

DANBURY

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Social Service Case Aide	1	1 0	0	('71) ('76)	0 0	2 3
Central Supply Worker	2	2 0	0	('71) ('76)	0 1	0 1
Medical Secretary	37	34 3	1	('71) ('76)	12 14 12 31	27 44
Secretary-Receptionist (Physician or Dentist's office)	185	123 62	10	('71) ('76)	53 55 62 128	118 200
Bookkeeping Clerk	27	24 3	0	('71) ('76)	3 6 3 14	9 17
Key Punch Operator	3	2 1	0	('71) ('76)	0 2 0 5	2 5
Nursing Unit Clerk	7	7 0	1	('71) ('76)	0 2 0 4	3 5
Medical Record Clerk	0	0 0	0	('71) ('76)	1 0 1 1	1 2
Recreation Director	2	1 1	0	('71) ('76)	4 0 4 2	4 6
Dietitian	10	8 2	4	('71) ('76)	4 2 4 6	10 14
Assistant Dietitian	0	0 0	1	('71) ('76)	1 0 1 1	2 3
Chef	5	5 0	1	('71) ('76)	1 1 1 3	3 5
						DANBURY

<u>OCCUPATION</u>	<u>CURRENT Total</u>	<u>EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
		<u>Full</u>	<u>Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Cook	53	46	7	6	('71) ('76)	9 10	14 36	29 52
Cook Helper	14	11	3	4	('71) ('76)	12 13	7 19	23 36
Baker	4	4	0	2	('71) ('76)	0 0	2 4	4 6
Food Service Supervisor	1	1	0	0	('71) ('76)	0 0	0 1	0 1
Dietary Aide	4	3	1	1	('71) ('76)	7 8	5 11	13 20
Laundress	3	1	2	0	('71) ('76)	3 4	1 2	4 6
Maintenance-General	4	1	3	0	('71) ('76)	6 6	2 5	8 11

DANEBOUR

Health Occupations
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Table XV
Estimated Demand - 1967 to 1971 and 1976
DANIELSON LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Total (Occupations Studied)	609	361 248	26	('71) ('76)	168 282	394 809
Nurse, Supervisor	4	4 0	0	('71) ('76)	4 5	6 10
Nurse, Head	14	14 0	0	('71) ('76)	4 6	10 20
Nurse, Instructor	3	3 0	0	('71) ('76)	2 3	4 9
Nurse, Staff	164	95 69	6	('71) ('76)	30 55	81 170
Nurse, Licensed Practical	59	34 25	4	('71) ('76)	18 33	38 81
Nurse Aide	164	77 87	7	('71) ('76)	34 70	91 202
Mental Retardation Aide	3	3 0	0	('71) ('76)	7 16	9 24
Orderly	11	8 3	2	('71) ('76)	6 11	12 23
Pharmacy Helper	1	0 1	0	('71) ('76)	1 1	2 3
E.E.G. Technician	0	0 0	0	('71) ('76)	1 1	1 2
					0 1	
					9	DANIELSON

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
E.K.G. Technician	1	1 0	0	('71) ('76)	1 1	2 4
X-Ray Technician	8	6 2	0	('71) ('76)	2 5	6 15
Cytology Technician	1	1 0	0	('71) ('76)	1 1	2 3
Laboratory Technician	22	16 6	0	('71) ('76)	3 4	10 21
Operating Room Technician	3	3 0	0	('71) ('76)	1 1	2 4
Inhalation Therapist	1	1 0	0	('71) ('76)	2 2	3 5
Dental Hygienist	3	1 2	0	('71) ('76)	2 2	4 6
Dental Assistant (Chairside only)	1	0 1	0	('71) ('76)	1 2	2 5
Secretary-Dental Assistant	6	4 2	0	('71) ('76)	2 2	4 6
Dental Laboratory Technician	3	3 0	0	('71) ('76)	1 2	2 4
Formula Room Worker	1	1 0	0	('71) ('76)	0 0	1 2
Physical Therapist Aide	1	1 0	0	('71) ('76)	2 3	3 6

DANIELSON

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Social Service Case Aide	0	0 0	0	('71) ('76)	0 0	0 1
Central Supply Worker	2	1 1	0	('71) ('76)	1 1	2 3
Medical Secretary	3	2 1	2	('71) ('76)	1 2	4 7
Secretary-Receptionist (Physician or Dentist's office)	38	27 11	1	('71) ('76)	10 12	22 40
Bookkeeping Clerk	25	17 8	3	('71) ('76)	4 4	14 23
Computer Operator	0	0 0	0	('71) ('76)	1 1	1 1
Key Punch Operator	0	0 0	0	('71) ('76)	1 1	1 2
Junior Programmer	0	0 0	0	('71) ('76)	1 1	1 1
Nursing Unit Clerk	4	2 2	0	('71) ('76)	1 1	3 6
Recreation Director	3	2 1	0	('71) ('76)	1 1	1 2
Dietitian	4	2 2	0	('71) ('76)	2 2	3 5
Assistant Dietitian	0	0 0	1	('71) ('76)	2 2	4 5

DANIELSON

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Cook	23	14 9	0	('71) ('76)	6 8 8 20	14 28
Cook Helper	6	3 3	0	('71) ('76)	7 12 5 11	12 23
Baker	2	2 0	0	('71) ('76)	1 1 1 2	2 3
Dietary Aide	8	5 3	0	('71) ('76)	2 3 6 14	8 17
Laundress	10	4 6	0	('71) ('76)	0 0 3 8	3 8
Maintenance-General	7	4 3	0	('71) ('76)	2 3 2 6	4 9

DANIELSON

Health Occupations
Study
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Table XVI
Estimated Demand - 1967 to 1971 and 1976
HARTFORD LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Total (Occupations Studied)	8657	6074 2583	1006	('71) ('76)	3874 5469	8916 16428
Nurse, Supervisor	154	142 12	9	('71) ('76)	45 72	83 147
Nurse, Head	227	222 5	20	('71) ('76)	77 120	155 286
Nurse, Instructor	56	50 6	11	('71) ('76)	27 47	53 95
Nurse, Staff	2378	1351 1027	288	('71) ('76)	864 1404	2956 6189
Nurse Anesthetist	28	26 2	4	('71) ('76)	16 27	34 69
Nurse, Licensed Practical	681	507 174	166	('71) ('76)	321 481	672 1104
Nurse Aide	1544	1086 458	128	('71) ('76)	838 1077	1521 2560
Mental Retardation Aide	42	34 8	14	('71) ('76)	41 79	69 130
Psychiatric Aide	157	122 35	58	('71) ('76)	5 5	125 208
Rehabilitation Aide	18	18 0	4	('71) ('76)	17 22	33 58

HARTFORD

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>	
Orderly	266	186 80	44	('71) ('76)	119 187	128 311	291 542
Pharmacy Helper	11	8 3	0	('71) ('76)	6 8	2 7	8 15
E.E.G. Technician	14	10 4	1	('71) ('76)	7 11	5 13	13 25
E.K.G. Technician	17	14 3	5	('71) ('76)	10 14	8 22	23 41
X-Ray Technician	117	100 17	1	('71) ('76)	43 70	27 68	71 139
Cytotechnician	25	22 3	2	('71) ('76)	12 18	7 17	21 37
Medical Laboratory Technician	235	172 63	15	('71) ('76)	103 165	62 144	180 324
Operating Room Technician	83	77 6	10	('71) ('76)	66 91	17 47	93 148
Inhalation Therapist	21	17 4	7	('71) ('76)	10 15	4 10	21 32
Dental Hygienist	162	93 69	28	('71) ('76)	110 133	78 206	216 367
Dental Assistant (Chairside only)	132	92 40	30	('71) ('76)	133 155	90 251	253 436
Secretary-Dental Assistant	278	210 68	13	('71) ('76)	70 80	78 172	161 265

HARTFORD

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Dental Laboratory Technician	99	91 8	22	('71) ('76)	96 116	34 74	152 212
Formula Room Worker	6	5 1	1	('71) ('76)	2 3	1 3	4 7
Pediatric Technician	4	4 0	0	('71) ('76)	3 3	1 2	4 5
Physical Therapist Aide	13	9 4	7	('71) ('76)	14 21	11 23	32 51
Social Service Case Aide	6	4 2	3	('71) ('76)	15 22	8 16	26 41
Central Supply Worker	87	80 7	6	('71) ('76)	27 49	17 42	50 97
Medical Secretary	142	127 15	19	('71) ('76)	69 102	60 149	148 270
Secretary-Receptionist (Physician or Dentist's office)	800	583 217	29	('71) ('76)	243 272	258 600	530 901
Bookkeeping Clerk	72	41 31	1	('71) ('76)	28 42	22 54	51 97
Computer Operator	5	5 0	0	('71) ('76)	7 7	2 7	9 14
Key Punch Operator	21	16 5	0	('71) ('76)	14 17	19 47	33 64
Tabulating Machine Operator	2	1 1	0	('71) ('76)	8 12	4 11	12 23
							HARTFORD

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>
Dietary Aide	69	37 32	7	('71) ('76)	64 72	84 205 155 284
Laundress	38	26 12	1	('71) ('76)	30 34	23 57 54 92
Maintenance-General	72	46 26	5	('71) ('76)	42 45	38 91 85 141

Health Occupations
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Table XVII
Estimated Demand - 1967 to 1971 and 1976
MERIDEN LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>	
Total (Occupations Studied)	1647	1080 567	120	('71) ('76)	668 945	630 1605	1418 2670
Nurse, Supervisor	26	24 2	5	('71) ('76)	12 20	5 18	22 43
Nurse, Head	52	47 5	0	('71) ('76)	10 16	12 31	22 47
Nurse, Instructor	11	11 0	0	('71) ('76)	3 7	2 6	5 13
Nurse, Staff	450	209 241	25	('71) ('76)	157 217	255 614	437 856
Nurse Anesthetist	6	6 0	0	('71) ('76)	1 1	2 5	3 6
Nurse, Licensed Practical	101	76 25	13	('71) ('76)	47 69	27 67	87 149
Nurse Aide	468	321 147	34	('71) ('76)	194 269	131 372	359 675
Mental Retardation Aide	0	0 0	0	('71) ('76)	16 49	2 14	18 63
Psychiatric Aide	43	37 6	1	('71) ('76)	6 12	18 45	25 58
Rehabilitation Aide	1	1 0	0	('71) ('76)	2 4	1 3	3 7

MERIDEN

<u>OCCUPATION</u>	<u>CURRENT</u>		<u>EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full</u>	<u>Part</u>			<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>
Orderly	36	23	13		12	('71) ('76)	19 26	15 37
Pharmacy Helper	2	1	1		0	('71) ('76)	2 3	0 1
E.E.G. Technician	0	0	0		0	('71) ('76)	1 1	0 0
E.K.G. Technician	11	2	9		0	('71) ('76)	1 1	4 9
X-Ray Technician	18	15	3		1	('71) ('76)	7 10	5 14
Cytotechnician	1	1	0		0	('71) ('76)	0 0	0 0
Medical Laboratory Technician	44	30	14		4	('71) ('76)	15 23	14 35
Operating Room Technician	9	8	1		0	('71) ('76)	3 4	2 4
Inhalation Therapist	1	0	1		0	('71) ('76)	1 1	1 2
Dental Hygienist	17	6	11		3	('71) ('76)	10 12	8 19
Dental Assistant (Chairside only)	7	4	3		2	('71) ('76)	7 8	4 13
Secretary-Dental Assistant	26	21	5		2	('71) ('76)	6 7	8 17

MERIDEN

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Dental Laboratory Technician	5	5 0	1	('71) ('76)	3 2 4 4	6 9
Formula Room Worker	4	2 2	0	('71) ('76)	0 1 0 2	1 2
Pediatric Technician	4	3 1	0	('71) ('76)	0 1 1 3	1 4
Physical Therapist Aide	7	7 0	0	('71) ('76)	6 4 9 9	10 18
Social Service Case Aide	2	1 1	2	('71) ('76)	6 3 10 7	11 19
Central Supply Worker	8	8 0	1	('71) ('76)	3 2 4 5	6 10
Medical Secretary	18	14 4	2	('71) ('76)	11 7 14 17	20 33
Secretary-Receptionist (Physician or Dentist's office)	119	85 34	5	('71) ('76)	33 38 39 86	76 130
Bookkeeping Clerk	12	11 1	0	('71) ('76)	7 3 8 8	10 16
Nursing Unit Clerk	14	13 1	0	('71) ('76)	8 3 12 8	11 20
Medical Record Clerk	2	1 1	0	('71) ('76)	2 1 3 2	3 5
Recreation Director	6	5 1	0	('71) ('76)	5 2 5 5	7 10
						MERIDEN

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Dietitian	9	6 3	0	('71) (('76)	7 9	2 5 9 14
Assistant Dietitian	6	4 2	2	('71) (('76)	3 4	1 3 6 9
Chef	8	7 1	1	('71) (('76)	2 2	2 5 5 8
Cook	37	27 10	2	('71) (('76)	11 13	11 28 24 43
Cook Helper	12	8 4	1	('71) (('76)	13 15	7 18 21 34
Baker	3	3 0	0	('71) (('76)	3 3	1 2 4 5
Dietary Aide	15	10 5	0	('71) (('76)	11 13	13 37 24 50
Laundress	8	5 3	0	('71) (('76)	4 5	3 7 7 12
Maintenance-General	18	12 6	1	('71) (('76)	10 12	7 18 18 31

Health Occupations
Study
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Table XVIII
Estimated Demand - 1967 to 1971 and 1976
MIDDLETOWN LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Total (Occupations Studied)	1924	1462 462	132	('71) ('76)	431 582	871 2024
Nurse, Supervisor	27 ₆	27 0	0	('71) ('76)	6 8	5 15
Nurse, Head	67	56 11	7	('71) ('76)	8 13	12 28
Nurse, Instructor	15	13 2	0	('71) ('76)	2 4	3 7
Nurse, Staff	337	161 176	32	('71) ('76)	78 133	221 499
Nurse, Licensed Practical	131	95 36	20	('71) ('76)	46 65	42 110
Nurse Aide	348	246 102	20	('71) ('76)	126 156	130 319
Psychiatric Aide	547	539 8	21	('71) ('76)	0 0	216 474
Rehabilitation Aide	1	1 0	0	('71) ('76)	6 6	2 4
Orderly	31	15 16	2	('71) ('76)	14 21	52 115
Pharmacy Helper	1	0 1	0	('71) ('76)	1 2	2 5

MIDDLETOWN

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
E.E.G. Technician	2	2 0	0	('71) ('76)	0 1	3 6
E.K.G. Technician	3	3 0	0	('71) ('76)	2 3	4 10
X-Ray Technician	12	11 1	0	('71) ('76)	6 8	10 18
Cytotechnician	2	2 0	0	('71) ('76)	0 0	1 3
Medical Laboratory Technician	13	11 2	4	('71) ('76)	2 4	14 27
Operating Room Technician	2	2 0	1	('71) ('76)	5 5	9 15
Inhalation Therapist	3	2 1	0	('71) ('76)	1 2	3 7
Dental Hygienist	14	5 9	2	('71) ('76)	8 9	17 27
Dental Assistant (Chairside only)	6	4 2	1	('71) ('76)	6 7	11 19
Secretary-Dental Assistant	21	17 4	0	('71) ('76)	5 6	12 21
Dental Laboratory Technician	4	4 0	0	('71) ('76)	2 3	3 6
Pediatric Technician	10	9 1	0	('71) ('76)	5 5	14 28

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Physical Therapist Aide	2	0 2	1	('71) ('76)	4 3 4 6	8 11
Social Service Case Aide	16	15 1	2	('71) ('76)	1 3 1 8	6 11
Central Supply Worker	7	7 0	0	('71) ('76)	5 4 5 11	9 16
Medical Secretary	6	5 1	1	('71) ('76)	1 3 2 6	5 9
Secretary-Receptionist (Physician or Dentist's office)	119	85 34	6	('71) ('76)	33 38 39 84	77 129
Bookkeeping Clerk	6	2 4	0	('71) ('76)	2 4 3 9	6 12
Computer Operator	1	1 0	0	('71) ('76)	1 1 1 3	2 4
Key Punch Operator	4	2 2	0	('71) ('76)	3 4 3 10	7 13
Nursing Unit Clerk	26	15 11	0	('71) ('76)	3 22 6 49	25 55
Medical Record Clerk	1	1 0	1	('71) ('76)	3 1 3 2	5 6
Recreation Director	8	7 1	0	('71) ('76)	4 2 4 5	6 9
Dietitian	6	3 3	0	('71) ('76)	3 1 4 4	4 8

MIDDLETOWN

<u>ORGANIZATION</u>	<u>CURRENT TOTAL</u>	<u>EMPLOYMENT FILL FTE</u>	<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
				<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>
Assistant Director	8	8	0	(1971) (1976)	2 3	2 5
Chief	4	4	0	(1971) (1976)	1 1	1 3
Chief	64	63	5	(1971) (1976)	4 6	19 44
Chief Budget	11	9	2	(1971) (1976)	6 7	6 16
Chief	1	1	0	(1971) (1976)	2 2	1 3
Food Service Supervisor	0	0	1	(1971) (1976)	2 2	0 1
Director Aide	8	3	2	(1971) (1976)	9 10	7 21
Laundress	18	8	0	(1971) (1976)	4 5	5 12
Maintenance-General	90	18	1	(1971) (1976)	9 10	8 19
						18 30

MIDDLETOWN

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Table XVII
Estimated Demand - 1967 to 1971 and 1976
NEW BRITAIN LABOR MARKET AREA

OCCUPATION	CURRENT TOTAL	EMPLOYMENT FULL PART	CURRENT VACANCIES	NEW WORKERS NEEDED		
				(Year)	Expansion Replacements	Total
Total (Occupations Studied)	1303	951 462	109	('71) ('76)	373 441	615 1436
Nurse, Supervisors	10	12 6	1	('71) ('76)	13 13	3 10
Nurse, Head	33	33 0	1	('71) ('76)	23 23	8 22
Nurse, Instructor	33	33 3	0	('71) ('76)	7 8	6 14
Nurse, Staff	341	153 186	26	('71) ('76)	58 84	223 499
Nurse Assistant	17	10 7	1	('71) ('76)	4 4	4 10
Nurse, Licensed Practical	83	10 37	18	('71) ('76)	23 26	26 64
Nurse Aide	361	346 66	21	('71) ('76)	80 90	142 336
Orderly	31	11 20	6	('71) ('76)	5 5	21 48
Pharmacy Helper	9	2 0	0	('71) ('76)	2 2	2 4
E.E.G. Technician	1	1 0	0	('71) ('76)	0 0	1 2

NEW BRITAIN

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Full</u>	<u>Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>
						<u>Total</u>
R.S.G. Technician	1	2	0	('71)	0	1
				('76)	0	2
X-Ray Technician	13	11	1	('71)	6	13
				('76)	8	28
Radiation Technician	1	3	1	('71)	1	1
				('76)	2	3
Radiation Laboratory Technician	18	34	5	('71)	8	10
				('76)	11	24
Operating Room Technician	7	4	0	('71)	0	3
				('76)	0	6
Radiation Therapist	11	8	6	('71)	22	8
				('76)	31	20
Dental Hygienist	20	11	4	('71)	12	8
				('76)	14	22
Dental Assistant (Outside only)	8	3	2	('71)	8	5
				('76)	9	14
Secretary-Dental Assistant	31	23	0	('71)	8	10
				('76)	9	21
Dental Laboratory Technician	8	4	2	('71)	4	3
				('76)	6	6
Dental Technician	3	2	0	('71)	0	3
				('76)	0	6
Physical Therapist Aide	1	3	0	('71)	2	3
				('76)	2	8
Social Service Case Aide	3	1	0	('71)	2	1
				('76)	2	3

NEW BRITAIN

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Central Supply Worker	12	12 0	0	('71) ('76)	2 3 2 7	5 9
Medical Secretary	6	4 2	0	('71) ('76)	0 5 0 11	5 11
Secretary-Receptionist (Physician or Dentist's office)	157	112 45	6	('71) ('76)	44 49 49 112	99 167
Bookkeeping Clerk	3	3 0	0	('71) ('76)	1 3 1 7	4 8
Computer Operator	0	0 0	0	('71) ('76)	3 0 4 2	3 6
Key Punch Operator	5	2 3	1	('71) ('76)	2 4 2 9	7 12
Tabulating Machine Operator	2	2 0	0	('71) ('76)	0 0 0 0	0 0
Junior Programmer	0	0 0	0	('71) ('76)	1 0 1 1	1 2
Nursing Unit Clerk	30	20 10	0	('71) ('76)	9 9 10 33	18 43
Medical Record Clerk	1	0 1	1	('71) ('76)	1 1 1 2	3 4
Recreation Director	4	3 1	1	('71) ('76)	1 0 1 2	2 4
Dietitian	8	3 5	1	('71) ('76)	3 1 3 3	5 7

NEW BRITAIN

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>
Assistant Dietitian	6	4 2	0	('71) ('76)	2 2	4 6
Chef	2	2 0	0	('71) ('76)	0 0	0 0
Cook	20	15 5	0	('71) ('76)	2 2	8 15
Cook Helper	10	8 2	0	('71) ('76)	4 4	12 21
Meat Cutter	1	1 0	0	('71) ('76)	0 0	0 0
Baker	2	2 0	1	('71) ('76)	0 0	2 2
Food Service Supervisor	1	1 0	0	('71) ('76)	0 0	0 0
Dietary Aide	12	6 6	2	('71) ('76)	4 4	17 31
Laundress	7	2 5	1	('71) ('76)	3 3	7 10
Maintenance-General	11	4 7	0	('71) ('76)	3 3	7 12

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Table XI
Estimated Demand - 1967 to 1971 and 1976
NEW HAVEN LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		(Year)	<u>Expansion Replacements</u>	<u>Total</u>
Total (Occupations Studied)	4998	3743 1255	552	('71) ('76)	1311 2005	3874 7262
Nurse, Supervisor	82	77 5	5	('71) ('76)	9 15	27 49
Nurse, Head	134	134 0	10	('71) ('76)	12 25	45 87
Nurse, Instructor	41	34 7	5	('71) ('76)	1 1	11 17
Nurse, Staff	1181	816 365	130	('71) ('76)	189 307	957 1941
Nurse Anesthetist	16	15 1	1	('71) ('76)	2 3	13 26
Nurse, Licensed Practical	435	303 132	141	('71) ('76)	110 194	397 659
Nurse Aide	1042	759 283	84	('71) ('76)	200 373	685 1378
Mental Retardation Aide	35	35 0	0	('71) ('76)	59 85	73 126
Psychiatric Aide	90	86 4	14	('71) ('76)	44 52	95 166
Rehabilitation Aide	0	0 0	0	('71) ('76)	1 2	1 3

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Orderly	34	19 15	8	('71) ('76)	15 25	15 35	38 68
Pharmacy Helper	13	13 0	0	('71) ('76)	3 6	4 9	7 15
E.E.G. Technician	5	4 1	0	('71) ('76)	6 7	2 5	8 12
E.K.G. Technician	13	12 1	0	('71) ('76)	11 14	3 6	14 20
X-Ray Technician	65	59 6	11	('71) ('76)	26 39	42 76	79 126
Cytotechnician	1	1 0	0	('71) ('76)	0 1	0 0	0 1
Medical Laboratory Technician	130	106 24	13	('71) ('76)	38 80	50 111	101 204
Operating Room Technician	43	43 0	0	('71) ('76)	4 8	8 16	12 24
Inhalation Therapist	34	30 4	7	('71) ('76)	25 40	9 20	41 67
Dental Hygienist	86	44 42	20	('71) ('76)	64 75	48 124	132 219
Dental Assistant (Chairside only)	80	58 22	19	('71) ('76)	79 90	55 157	153 266
Secretary-Dental Assistant	169	133 36	6	('71) ('76)	38 43	52 111	96 160

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Dental Laboratory Technician	69	62 7	11	('71) ('76)	25 51	60 104
Pediatric Technician	13	10 3	0	('71) ('76)	5 10	5 10
Physical Therapist Aide	12	12 0	2	('71) ('76)	5 11	16 31
Social Service Case Aide	24	24 0	3	('71) ('76)	16 35	68 106
Central Supply Worker	43	41 2	0	('71) ('76)	22 47	25 53
Medical Secretary	49	47 2	2	('71) ('76)	14 32	27 51
Secretary-Receptionist (Physician or Dentist's office)	503	363 140	20	('71) ('76)	163 373	325 552
Bookkeeping Clerk	3	3 0	0	('71) ('76)	1 3	2 4
Computer Operator	2	2 0	0	('71) ('76)	0 0	4 6
Key Punch Operator	13	13 0	0	('71) ('76)	3 7	6 12
Tabulating Machine Operator	3	3 0	0	('71) ('76)	1 3	3 5
Junior Programmer	1	1 0	1	('71) ('76)	2 4	7 14

NEW HAVEN

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>
Nursing Unit Clerk	121	87 34	9	('71) 16 ('76) 34	37 79	62 122
Medical Record Clerk	3	1 2	1	('71) 4 ('76) 5	2 5	7 11
Recreation Director	17	15 2	2	('71) 9 ('76) 12	4 11	15 25
Dietitian	41	31 10	0	('71) 6 ('76) 9	7 15	13 24
Assistant Dietitian	19	16 3	0	('71) 2 ('76) 4	4 9	6 13
Chef	6	6 0	0	('71) 0 ('76) 0	0 2	0 2
Cook	104	84 20	8	('71) 6 ('76) 13	23 53	37 74
Cook Helper	57	40 17	12	('71) 9 ('76) 21	24 68	45 101
Meat Cutter	2	1 1	0	('71) 1 ('76) 1	0 1	1 2
Baker	6	6 0	0	('71) 1 ('76) 1	0 2	1 3
Food Service Supervisor	32	23 9	1	('71) 4 ('76) 7	8 18	13 26
Dietary Aide	46	26 20	4	('71) 28 ('76) 37	38 110	70 151

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Laundress	26	14 12	0	('71) ('76)	12 32	28 52
Maintenance-General	54	31 23	2	('71) ('76)	20 49	43 74

Health Occupations
Study
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Table XXI
Estimated Demand - 1967 to 1971 and 1976
NEW LONDON LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		(Year)	<u>Expansion</u> <u>Replacements</u>	<u>Total</u>
Total (Occupations Studied)	1301	932 369	133	('71) ('76)	305 342	471 1104 909 1579
Nurse, Supervisor	21	18 3	0	('71) ('76)	3 3	3 7 6 10
Nurse, Head	31	31 0	2	('71) ('76)	2 2	4 11 8 15
Nurse, Instructor	18	17 1	0	('71) ('76)	0 0	4 9 4 9
Nurse, Staff	334	206 128	42	('71) ('76)	51 62	178 403 271 507
Nurse Anesthetist	10	10 0	0	('71) ('76)	0 0	3 7 3 7
Nurse, Licensed Practical	84	54 30	18	('71) ('76)	19 22	21 53 58 93
Nurse Aide	263	178 85	29	('71) ('76)	90 96	79 189 198 314
Mental Retardation Aide	86	72 14	0	('71) ('76)	18 18	16 41 34 59
Orderly	9	2 7	11	('71) ('76)	4 4	4 10 19 25
E.E.G. Technician	2	1 1	0	('71) ('76)	0 0	1 2 1 2

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
E.K.G. Technician	4	4 0	0	('71) ('76)	0 0	1 2
X-Ray Technician	15	15 0	0	('71) ('76)	1 1	5 11
Cytotechnician	3	3 0	1	('71) ('76)	0 0	1 2
Medical Laboratory Technician	26	23 3	3	('71) ('76)	3 4	8 19
Operating Room Technician	17	17 0	0	('71) ('76)	0 0	3 8
Inhalation Therapist	3	1 2	5	('71) ('76)	0 0	3 7
Dental Hygienist	19	8 11	4	('71) ('76)	13 14	8 23
Dental Assistant (Chairside only)	9	5 4	2	('71) ('76)	9 10	6 16
Secretary-Dental Assistant	32	26 6	0	('71) ('76)	7 8	11 21
Dental Laboratory Technician	12	10 2	2	('71) ('76)	5 8	4 9
Pediatric Technician	8	8 0	1	('71) ('76)	0 0	3 8
Physical Therapist Aide	2	2 0	0	('71) ('76)	0 0	0 1

NEW LONDON

<u>ORGANIZATION</u>	<u>CURRENT Total</u>	<u>EMPLOYMENT</u>		<u>REVENUE</u>	<u>EXPENDITURE</u>	<u>NET (Year)</u>	<u>W O R K Examination</u>	<u>REVENUE</u>	<u>EXPENDITURE</u>
		<u>Full</u>	<u>Part</u>						
Social Service Case Aide	1	1	0			{171} {176}	1		
Central Supply Worker	15	15	0			{171} {176}	1		
Medical Secretary	12	12	0			{171} {176}	3		
Secretary-Receptionist (Physician or Dentist's office)	154	139	14			{171} {176}	13		
Nursing Unit Clerk	24	24	0			{171} {176}	1		
Medical Record Clerk	0	0	0			{171} {176}	2		
Recreation Director	4	3	1			{171} {176}	2		
Physician	5	3	0			{171} {176}	2		
Assistant Physician	10	10	0			{171} {176}	0		
Chief	3	3	0			{171} {176}	0		
Cook	20	20	0			{171} {176}	2		
Cook Helper	8	6	0			{171} {176}	2		

COMPARISON

CURRENT
Total

EMPLOYMENT
Full Time

Salaries

Dietary Aide

Laundress

Maintenance-Supervisors

7/8

EMPLOYMENT
Full Time

EMPLOYMENT
Part Time

EMPLOYMENT
Seasonal

EMPLOYMENT
Temporary

EMPLOYMENT
Contract

0

1

1

1

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

EMPLOYMENT
Total

EMPLOYMENT
Part Time

EMPLOYMENT
Seasonal

EMPLOYMENT
Temporary

EMPLOYMENT
Contract

0

0

0

0

0

0

0

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0

Health Occupations
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Table 2-11
Estimated Demand in 1971 for 1971 and 1976
Nursing, Health, and Allied Professions

Occupation	CURRENT Total	EMPLOYMENT Full Time	1971 1976	1971 1976	Examination	
					(Year)	(Year)
Total (Occupations Studied)	1278	924	946	84	(1971) (1976)	228 303
Nurse, Supervisor	24	24	0	1	(1971) (1976)	2 3
Nurse, Head	35	33	0	1	(1971) (1976)	2 4
Nurse, Instructor	15	9	0	0	(1971) (1976)	0 1
Nurse, Staff	328	296	298	40	(1971) (1976)	110 152
Nurse Anesthetist	1	0	1	0	(1971) (1976)	0 0
Nurse, Licensed Practical	58	102	116	0	(1971) (1976)	13 19
Nurse Aide	263	204	209	19	(1971) (1976)	23 32
Certifying	13	10	0	0	(1971) (1976)	2 2
R.R.G. Technician	2	0	0	0	(1971) (1976)	0 1
R.R.G. Technician	1	1	0	0	(1971) (1976)	1 2

OCCUPATION	CURRENT EMPLOYMENT		CURRENT VACANCIES	NEW WORKERS NEEDED		
	CURRENT Total	Full Part		(Year)	Expansion	Replacements Total
X-Ray Technician	14	13 1	0	('71) ('76)	4 6	10 19
Cytotechnician	3	2 1	1	('71) ('76)	1 2	3 5
Medical Laboratory Technician	46	35 11	3	('71) ('76)	5 8	21 39
Operating Room Technician	6	6 0	0	('71) ('76)	0 1	2 5
Dental Hygienist	32	14 18	7	('71) ('76)	20 24	42 69
Dental Assistant (Chairside only)	26	17 9	5	('71) ('76)	26 29	50 86
Secretary-Dental Assistant	60	48 12	3	('71) ('76)	13 15	33 55
Dental Laboratory Technician	10	9 1	2	('71) ('76)	3 5	8 14
Pediatric Technician	19	19 0	0	('71) ('76)	1 2	8 18
Physical Therapist Aide	2	1 1	1	('71) ('76)	1 1	3 5
Social Service Case Aide	1	1 0	0	('71) ('76)	1 2	2 4
Central Supply Worker	14	14 0	0	('71) ('76)	1 2	3 7

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Medical Secretary	4	2 2	0	('71) ('76)	1 2	2 4	3 6
Secretary-Receptionist (Physician or Dentist's office)	205	148 57	8	('71) ('76)	57 65	65 150	130 223
Bookkeeping Clerk	2	2 0	0	('71) ('76)	0 1	0 1	0 2
Computer Operator	1	1 0	0	('71) ('76)	0 1	0 0	0 1
Key Punch Operator	4	3 1	0	('71) ('76)	1 2	1 2	2 4
Junior Programmer	1	1 0	0	('71) ('76)	0 1	0 0	0 1
Nursing Unit Clerk	17	10 7	0	('71) ('76)	0 1	4 9	4 10
Medical Record Clerk	2	2 0	0	('71) ('76)	1 1	2 4	3 5
Recreation Director	4	4 0	0	('71) ('76)	2 2	1 2	3 4
Dietitian	7	4 3	0	('71) ('76)	0 1	0 1	0 2
Assistant Dietitian	8	7 1	0	('71) ('76)	1 2	2 4	3 6
Chef	2	2 0	0	('71) ('76)	0 0	0 0	0 0

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Cook	13	10 3	0	('71) ('76)	2 3 3 8	5 11
Cook Helper	4	3 1	1	('71) ('76)	1 2 2 4	4 7
Baker	1	1 0	0	('71) ('76)	0 0 1 0	0 1
Dietary Aide	16	13 3	0	('71) ('76)	3 5 3 8	6 13
Laundress	4	4 0	0	('71) ('76)	1 1 1 3	2 4
Maintenance-General	10	7 3	0	('71) ('76)	1 2 3 7	4 9

NORMAL

Health Occupations
Study
Connecticut

Table XXIII
Estimated Demand - 1967 to 1971 and 1976
NORWICH LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Total (Occupations Studied)	1893	1533 360	136	(^{'71}) (^{'76})	171 216	1063 1991
Nurse, Supervisor	43	32 11	1	(^{'71}) (^{'76})	3 5	8 20
Nurse, Head	76	75 1	6	(^{'71}) (^{'76})	4 4	19 41
Nurse, Instructor	13	11 2	2	(^{'71}) (^{'76})	0 0	4 9
Nurse, Staff	291	136 155	52	(^{'71}) (^{'76})	29 39	197 372
Nurse Anesthetist	4	4 0	0	(^{'71}) (^{'76})	0 0	1 2
Nurse, Licensed Practical	100	78 22	23	(^{'71}) (^{'76})	16 22	31 68
Nurse Aide	321	246 75	15	(^{'71}) (^{'76})	42 52	98 218
Psychiatric Aide	624	608 16	14	(^{'71}) (^{'76})	0 0	263 579
Rehabilitation Aide	7	7 0	0	(^{'71}) (^{'76})	1 1	3 9
Orderly	20	12 8	1	(^{'71}) (^{'76})	2 4	9 22
						12 27
						NORWICH

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
E.E.G. Technician	1	1 0	0	('71) ('76)	0 0	0 1
E.K.G. Technician	3	3 0	0	('71) ('76)	0 0	1 3
X-Ray Technician	15	13 2	2	('71) ('76)	3 4	6 14
Cytotechnician	1	0 1	0	('71) ('76)	0 0	1 2
Medical Laboratory Technician	33	28 5	3	('71) ('76)	4 5	8 21
Operating Room Technician	4	2 2	2	('71) ('76)	2 2	3 7
Inhalation Therapist	0	0 0	0	('71) ('76)	1 2	0 1
Dental Hygienist	9	5 4	1	('71) ('76)	6 7	5 12
Dental Assistant (Chairside only)	4	3 1	1	('71) ('76)	4 5	2 7
Secretary-Dental Assistant	16	13 3	0	('71) ('76)	4 4	5 10
Dental Laboratory Technician	3	3 0	0	('71) ('76)	2 3	1 2
Pediatric Technician	5	5 0	0	('71) ('76)	0 0	2 5

NORWICH

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>		<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>			<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Physical Therapist Aide	0	0 0	0		('71) ('76)	1 2	1 2
Social Service Case Aide	8	7 1	2		('71) ('76)	1 2	5 9
Central Supply Worker	11	11 0	0		('71) ('76)	2 2	5 9
Medical Secretary	8	8 0	0		('71) ('76)	1 2	4 10
Secretary-Receptionist (Physician or Dentist's office)	80	57 23	4		('71) ('76)	23 26	52 90
Bookkeeping Clerk	2	2 0	0		('71) ('76)	1 1	1 2
Nursing Unit Clerk	11	7 4	0		('71) ('76)	3 6	5 12
Medical Record Clerk	0	0 0	0		('71) ('76)	1 1	1 1
Recreation Director	8	6 2	0		('71) ('76)	0 0	2 4
Dietitian	5	2 3	1		('71) ('76)	2 2	5 6
Assistant Dietitian	2	2 0	0		('71) ('76)	0 0	1 2
Chef	18	18 0	0		('71) ('76)	1 1	5 12

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full</u> <u>Part</u>		<u>(Year)</u> <u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Cook	62	56 6	0	('71) ('76)	3 3	15 36
Cook Helper	22	21 1	0	('71) ('76)	3 3	8 19
Baker	4	4 0	0	('71) ('76)	0 0	1 2
Food Service Supervisor	21	21 0	0	('71) ('76)	0 0	4 10
Dietary Aide	15	11 4	3	('71) ('76)	3 3	10 23
Laundress	9	7 2	1	('71) ('76)	1 1	3 7
Maintenance-General	14	8 6	2	('71) ('76)	2 2	4 10
						8 14

NORWICH

Health Occupations
Study
Connecticut

Table XXIV
Estimated Demand - 1967 to 1971 and 1976
STAMFORD LABOR MARKET AREA

OCCUPATION	CURRENT EMPLOYMENT		CURRENT VACANCIES	NEW WORKERS NEEDED			
	Total	Full Part		(Year)	Expansion	Replacements Total	
Total (Occupations Studied)	2753	1825 928	294	('71) ('76)	1063 1248	984 2429	2341 3971
Nurse, Supervisor	41	32 9	6	('71) ('76)	10 11	11 28	27 45
Nurse, Head	91	88 3	1	('71) ('76)	15 19	18 45	34 65
Nurse, Instructor	25	17 8	5	('71) ('76)	5 6	4 11	14 22
Nurse, Staff	640	364 276	94	('71) ('76)	149 194	322 767	565 1055
Nurse Anesthetist	8	7 1	0	('71) ('76)	5 7	0 1	5 8
Nurse, Licensed Practical	184	134 50	40	('71) ('76)	99 117	46 118	185 275
Nurse Aide	641	375 266	47	('71) ('76)	294 328	183 473	524 848
Mental Retardation Aide	0	0 0	0	('71) ('76)	52 57	3 17	55 74
Psychiatric Aide	4	4 0	0	('71) ('76)	9 9	3 7	12 16
Rehabilitation Aide	0	0 0	0	('71) ('76)	5 5	2 4	7 9
							STANFORD

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<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		<u>Total</u>
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	
Dental Laboratory Technician	22	18 4	4	('71) 8 ('76) 14	8 16	20 34
Formula Room Worker	2	1 1	0	('71) 0 ('76) 0	0 0	0 0
Pediatric Technician	25	18 7	0	('71) 12 ('76) 14	7 19	19 33
Physical Therapist Aide	4	3 1	3	('71) 9 ('76) 10	2 5	14 18
Social Service Case Aide	0	0 0	2	('71) 9 ('76) 10	1 4	12 16
Central Supply Worker	37	33 4	2	('71) 6 ('76) 10	13 28	21 40
Medical Secretary	26	19 7	2	('71) 3 ('76) 4	9 18	14 24
Secretary-Receptionist (Physician or Dentist's office)	380	272 108	14	('71) 102 ('76) 115	116 266	232 395
Bookkeeping Clerk	25	16 9	0	('71) 0 ('76) 0	4 10	4 10
Computer Operator	1	1 0	0	('71) 3 ('76) 4	1 4	4 8
Key Punch Operator	4	2 2	0	('71) 7 ('76) 7	2 8	9 15
Junior Programmer	0	0 0	0	('71) 1 ('76) 1	0 1	1 2

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Nursing Unit Clerk	50	36 14	0	('71) ('76)	13 19	10 25
Medical Record Clerk	1	1 0	0	('71) ('76)	2 2	0 1
Recreation Director	9	8 1	1	('71) ('76)	5 5	2 4
Dietitian	18	9 9	2	('71) ('76)	8 8	6 14
Assistant Dietitian	13	13 0	0	('71) ('76)	3 5	4 10
Chef	7	7 0	0	('71) ('76)	1 1	1 4
Cook	43	36 7	3	('71) ('76)	12 15	12 31
Cook Helper	19	16 3	0	('71) ('76)	9 11	7 20
Meat Cutter	1	1 0	2	('71) ('76)	0 0	1 2
Baker	3	3 0	0	('71) ('76)	1 2	0 2
Food Service Supervisor	1	1 0	0	('71) ('76)	1 1	0 1
Dietary Aide	31	22 9	2	('71) ('76)	20 21	26 65
						48 88
						STAMFORD

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Laundress	10	7 3	0	(171) (176)	3 3	4 9	7 12
Maintenance-General	19	11 8	3	(171) (176)	6 6	7 17	16 26

Health Occupations
Study
Connecticut

Table XIV
Estimated Demand - 1967 to 1971 and 1976
TORRINGTON LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		<u>Total</u>
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u> <u>Expansion</u>	<u>Replacements</u>	
Total (Occupations Studied)	896	611 285	61	(^{'71}) (^{'76}) 342 503	355 875	758 1439
Nurse, Supervisor	20	18 2	3	(^{'71}) (^{'76}) 5 9	7 16	15 28
Nurse, Head	25	25 0	0	(^{'71}) (^{'76}) 8 13	9 19	17 32
Nurse, Instructor	3	1 2	0	(^{'71}) (^{'76}) 1 2	0 2	1 4
Nurse, Staff	281	170 111	17	(^{'71}) (^{'76}) 76 129	121 312	214 458
Nurse Anesthetist	4	4 0	0	(^{'71}) (^{'76}) 0 0	1 2	1 2
Nurse, Licensed Practical	66	49 17	4	(^{'71}) (^{'76}) 26 39	24 57	54 100
Nurse Aide	167	121 46	11	(^{'71}) (^{'76}) 53 73	55 135	119 219
Mental Retardation Aide	0	0 0	0	(^{'71}) (^{'76}) 48 53	3 16	51 69
Psychiatric Aide	0	0 0	0	(^{'71}) (^{'76}) 5 10	2 5	7 15
Orderly	23	12 11	4	(^{'71}) (^{'76}) 7 12	14 29	25 45

TORRINGTON

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Pharmacy Helper	1	0 1	0	('71) ('76)	1 2	2 4
E.K.G. Technician	5	4 1	0	('71) ('76)	1 2	4 8
X-Ray Technician	16	12 4	1	('71) ('76)	5 7	13 24
Cytotechnician	1	0 1	1	('71) ('76)	0 0	1 1
Medical Laboratory Technician	27	20 7	4	('71) ('76)	5 8	19 35
Operating Room Technician	6	6 0	1	('71) ('76)	3 6	8 16
Inhalation Therapist	3	3 0	0	('71) ('76)	1 2	2 4
Dental Hygienist	13	6 7	2	('71) ('76)	8 8	16 23
Dental Assistant (Chairside only)	6	3 3	1	('71) ('76)	6 7	11 19
Secretary-Dental Assistant	20	16 4	3	('71) ('76)	4 4	12 20
Dental Laboratory Technician	4	4 0	0	('71) ('76)	1 2	2 5
Formula Room Worker	1	0 1	0	('71) ('76)	1 2	2 4
						TORRINGTON

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Assistant Dietitian	5	4 1	1	('71) ('76)	1 2	2 4 4 7
Chef	5	5 0	0	('71) ('76)	3 7	4 7 7 14
Cook	14	10 4	1	('71) ('76)	6 7	4 10 11 18
Cook Helper	11	7 4	0	('71) ('76)	6 7	6 14 12 21
Baker	2	1 1	0	('71) ('76)	0 1	1 2 1 3
Dietary Aide	6	3 3	1	('71) ('76)	2 2	4 11 7 14
Laundress	4	3 1	0	('71) ('76)	2 2	1 3 3 5
Maintenance-General	4	2 2	0	('71) ('76)	3 3	2 5 5 8

Health Occupations
Study
Connecticut

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Table XXVI
Estimated Demand - 1967 to 1971 and 1976
WATERBURY LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		(Year)	<u>Expansion Replacements</u>	<u>Total</u>
Total (Occupations Studied)	3204	2215 989	277	('71) 914 ('76) 1039	1314 2942	2505 4258
Nurse, Supervisor	15	14 1	2	('71) 5 ('76) 5	3 6	10 13
Nurse, Head	50	47 3	2	('71) 7 ('76) 7	11 24	20 33
Nurse, Instructor	5	4 1	1	('71) 1 ('76) 1	1 2	3 4
Nurse, Staff	886	473 413	120	('71) 217 ('76) 239	637 1404	974 1763
Nurse Anesthetist	11	11 0	1	('71) 2 ('76) 2	3 6	6 9
Nurse, Licensed Practical	175	120 55	22	('71) 67 ('76) 77	64 146	153 245
Nurse Aide	597	375 222	46	('71) 253 ('76) 279	176 418	475 743
Mental Retardation Aide	543	506 37	29	('71) 56 ('76) 99	92 194	177 322
Orderly	40	27 13	7	('71) 25 ('76) 25	18 45	50 77
Pharmacy Helper	4	3 1	0	('71) 1 ('76) 1	1 2	2 3

WATERBURY

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>
E.E.G. Technician	4	2 2	0	('71) ('76)	2 2	4 6
E.K.G. Technician	5	5 0	0	('71) ('76)	1 1	3 5
X-Ray Technician	20	16 4	2	('71) ('76)	7 7	16 25
Cytotechnician	3	3 0	0	('71) ('76)	1 1	1 2
Medical Laboratory Technician	33	27 6	4	('71) ('76)	15 18	29 46
Operating Room Technician	4	3 1	0	('71) ('76)	3 3	4 6
Inhalation Therapist	6	4 2	0	('71) ('76)	2 2	4 6
Dental Hygienist	45	15 30	10	('71) ('76)	22 22	45 63
Dental Assistant (Chairside only)	23	13 10	5	('71) ('76)	22 22	43 68
Secretary-Dental Assistant	75	70 5	0	('71) ('76)	10 10	34 60
Dental Laboratory Technician	11	10 1	2	('71) ('76)	7 9	13 21
Physical Therapist Aide	5	4 1	0	('71) ('76)	3 5	6 11

WATERBURY

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion Replacements</u>	<u>Total</u>
Social Service Case Aide	2	2 0	0	('71) ('76)	2 0 3 0	2 3
Central Supply Worker	14	12 2	1	('71) ('76)	3 4 3 8	8 12
Medical Secretary	18	17 1	0	('71) ('76)	3 7 4 17	10 21
Secretary-Receptionist (Physician or Dentist's office)	238	165 73	12	('71) ('76)	56 75 66 169	143 247
Bookkeeping Clerk	15	9 6	0	('71) ('76)	2 7 3 14	9 17
Nursing Unit Clerk	16	9 7	0	('71) ('76)	2 5 2 10	7 12
Medical Record Clerk	1	1 0	0	('71) ('76)	2 0 2 0	2 2
Recreation Director	17	12 5	0	('71) ('76)	14 3 14 8	17 22
Dietitian	14	10 4	2	('71) ('76)	4 2 4 4	8 10
Assistant Dietitian	5	5 0	0	('71) ('76)	0 1 0 2	1 2
Chef	3	3 0	0	('71) ('76)	1 0 1 0	1 1
Cook	137	108 29	2	('71) ('76)	23 24 25 54	49 81

WATERBURY

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>
Cook Helper	55	41 14	1	('71) 16 ('76) 17	17 39	34 57
Baker	3	3 0	0	('71) 0 ('76) 1	1 2	1 3
Dietary Aide	52	26 26	4	('71) 31 ('76) 31	44 101	79 136
Laundress	21	18 3	1	('71) 10 ('76) 10	11 26	22 37
Maintenance-General	33	22 11	1	('71) 16 ('76) 16	23 47	40 64

Table XXVII

Estimated Demand - 1967 to 1971 and 1976

Health Occupations
Study
ConnecticutWILLIMANTIC LABOR MARKET AREA

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>	
	<u>Total</u>	<u>Full Part</u>		<u>(Year) Expansion</u>	<u>Replacements Total</u>
Total (Occupations Studied)	1082	908 174	89	('71) 245 ('76) 360	352 686 848 1297
Nurse, Supervisor	6	6 0	0	('71) 2 ('76) 3	0 2 1 4
Nurse, Head	17	17 0	0	('71) 5 ('76) 7	4 9 11 18
Nurse, Instructor	3	3 0	0	('71) 1 ('76) 1	2 3 4 5
Nurse, Staff	131	77 54	17	('71) 36 ('76) 55	71 124 167 239
Nurse Anesthetist	1	1 0	0	('71) 0 ('76) 0	1 1 2 2
Nurse, Licensed Practical	57	47 10	19	('71) 25 ('76) 38	15 59 39 96
Nurse Aide	132	95 37	19	('71) 68 ('76) 105	47 134 115 239
Mental Retardation Aide	520	502 18	15	('71) 20 ('76) 40	127 162 291 346
Orderly	5	1 4	7	('71) 9 ('76) 10	5 21 12 29
Pharmacy Helper	1	0 1	1	('71) 1 ('76) 1	1 3 2 4

WILLIMANTIC

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
E.E.G. Technician	1	1 0	0	('71) ('76)	1 1	0 2 3
E.K.G. Technician	2	1 1	0	('71) ('76)	0 0	0 1 1 0
X-Ray Technician	7	7 0	1	('71) ('76)	1 2	3 8 11 5
Medical Laboratory Technician	13	8 5	0	('71) ('76)	4 6	10 25 14 31
Operating Room Technician	0	0 0	0	('71) ('76)	3 3	1 2 4 5
Inhalation Therapist	0	0 0	1	('71) ('76)	1 2	1 2 3 5
Dental Hygienist	6	3 3	1	('71) ('76)	3 4	3 6 7 11
Dental Assistant (Chairside only)	2	1 1	0	('71) ('76)	3 3	2 5 5 8
Secretary-Dental Assistant	10	8 2	1	('71) ('76)	2 2	3 7 6 10
Dental Laboratory Technician	1	1 0	0	('71) ('76)	1 1	0 0 1 1
Formula Room Worker	2	1 1	0	('71) ('76)	0 0	0 1 0 1
Physical Therapist Aide	3	2 1	0	('71) ('76)	17 18	4 13 21 31

WILLIAMANTIC

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>		
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements Total</u>
Social Service Case Aide	0	0 0	0	('71) ('76)	1 2	0 1 3
Central Supply Worker	5	2 3	0	('71) ('76)	1 2	2 4 6
Medical Secretary	15	14 1	0	('71) ('76)	1 1	4 10 5 11
Secretary-Receptionist	41	31 10	2	('71) ('76)	11 13	13 30 26 45
Bookkeeping Clerk	1	1 0	0	('71) ('76)	1 1	0 1 1 2
Computer Operator	0	0 0	0	('71) ('76)	1 1	0 0 1 1
Key Punch Operator	2	2 0	0	('71) ('76)	1 2	1 1 2 3
Tabulating Machine Operator	1	1 0	0	('71) ('76)	1 1	1 2 2 3
Junior Programmer	0	0 0	0	('71) ('76)	1 1	0 0 1 1
Nursing Unit Clerk	11	6 5	1	('71) ('76)	4 6	3 8 8 15
Medical Record Clerk	0	0 0	0	('71) ('76)	1 1	0 1 1 2
Recreation Director	4	3 1	1	('71) ('76)	0 1	0 2 1 4

WILLIMANTIC

<u>OCCUPATION</u>	<u>CURRENT EMPLOYMENT</u>		<u>CURRENT VACANCIES</u>	<u>NEW WORKERS NEEDED</u>			
	<u>Total</u>	<u>Full Part</u>		<u>(Year)</u>	<u>Expansion</u>	<u>Replacements</u>	<u>Total</u>
Dietitian	4	2 2	1	('71) ('76)	2 2	0 2	3 5
Assistant Dietitian	0	0 0	1	('71) ('76)	0 1	0 0	1 2
Chef	1	1 0	0	('71) ('76)	0 0	0 0	0 0
Cook	40	37 3	0	('71) ('76)	1 3	12 26	13 29
Cook Helper	5	3 2	0	('71) ('76)	3 4	3 7	6 11
Baker	1	1 0	0	('71) ('76)	0 0	1 2	1 2
Food Service Supervisor	14	14 0	1	('71) ('76)	0 0	3 8	4 9
Dietary Aide	6	2 4	0	('71) ('76)	6 8	5 16	11 24
Laundress	4	2 2	0	('71) ('76)	1 2	1 3	2 5
Maintenance-General	7	4 3	0	('71) ('76)	5 6	3 8	8 14

WILLIMANTIC

PART II

Training Facilities and Programs

Training for the health occupations studied is carried on mainly in hospitals and technical schools. The Community Colleges are now planning to add training courses particularly in the nurse related field. In addition to those trained within the state, the manpower supply is affected by those persons who move into the state and by trained persons who move out.

The largest programs are in nursing. Sixteen hospitals have three-year diploma programs, three colleges have four-year baccalaureate programs, and one has a two-year associate degree program. In 1966 the number of nurses graduated was 648, the lowest in over five years. Little change is expected for 1967.

The technical schools throughout the state have increased their programs for licensed practical nurses with 570 expected to graduate this year.

Training for nurse aides is given in most hospitals with a total of 1,369 having completed courses during the past year. High Schools trained 119 nurse aides and convalescent homes have done considerable training on an informal basis. The mental hospitals trained about 400 psychiatric aides.

In the technician field, 207 trainees in hospitals completed courses in x-ray, 97 in medical laboratory, and 70 in operation room areas. Other hospital training and the number completing the course during the year were inhalation therapist 65, nurse anesthetist 30, rehabilitation aide 15, social service case worker 15, and cytotechnician 9.

In the dental area, one university has a course for dental hygienists with 60 graduating, and three technical schools have programs for dental assistants with 55 having completed their class studies during the past year.

Education Required and Course Content Preferred

In order that training and educational programs for health service better meet occupational requirements, Part II of the study form was concerned with the level of education required and the course content preferred.

Among hospital administrators, five replies specified college and 31 diploma school as the minimum required educational level for staff nurse. For nurse instructor all 31 responding listed college as the minimum required educational level. For licensed practical nurse, all 34 responding specified high school plus one year.

For course content general, English and mathematics were the most frequently listed subjects. For staff nurse, English was specified 12 times, mathematics 8 times, and anatomy, biology, physics, and psychology 5 times each. In specialized subjects bedside care was specified 5 times, and general nursing and psychiatric nursing 4 times

each.

The minimum educational level required and general and specialized courses preferred for each of the occupations studied as specified by hospitals are listed in Table XXVIII "Minimum Educational Requirements - Hospitals" (pages 106-113).

Among convalescent and rest home administrators, one stated college and 52 a diploma school as a minimum educational level required for staff nurse. For nurse supervisor, eight specified college and two a diploma school as the minimum level. For licensed practical nurse, all 49 reporting specified high school plus one year as the minimum required educational level.

Table XIX (pages 114-117) shows the minimum educational level required and the general and specialized courses preferred by the convalescent and rest homes for each of the occupations studied.

Table XXVIII
Minimum Educational Requirements
HOSPITALS

O C C U P A T I O N	F O R M A L E D U C A T I O N		C O U R S E				C O N T E N T S P E C I A L I Z E D			
	Level	Resp.	G E N E R A L		S P E C I A L I Z E D		S P E C I A L I Z E D		S P E C I A L I Z E D	
			Subject	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.
Nurse, Supervisor	College Diploma Sch.	25 12	Accounting	2	Personality,	1	Administration	6	Management	7
			Anatomy	3	Theories of	1	Bedside Care	4	New Equip. &	1
			Bacteriology	1	Philosophy	4	Body Mechan.	3	Techniques	8
			Biology	4	Physics	2	Cardiology	1	Nursing Cur-	1
			Chemistry	1	Physiology	5	Counseling	1	riculum	2
			Communication	2	Psychology	1	Geriatrics	2	Personnel Ad-	2
			English	9	Science	1	Inhalation	1	ministration	2
			Group Dynam.	3	Soc. Psych.	1	Therapy	1	Pharmacology	2
			Human Relat.	5	Sociology	4	Interpersonal	1	Psych. Nursing	2
			Liberal Arts	2	Teach. Methods	2	Relations	1	Supervision	5
			Mathematics	5						
Nurse, Head	College Diploma Sch.	19 17	Accounting	2	Personality,	1	Administration	3	Medical-Surg.	3
			Anatomy	3	Theories of	1	Bedside Care	4	Nursing	7
			Bacteriology	1	Philosophy	4	Body Mechan.	3	Nursing Cur-	1
			Biology	4	Physics	2	Clinical Nurs.	1	riculum	1
			Chemistry	1	Physiology	5	Community	1	Personnel Ad-	1
			Communication	2	Psychology	1	Health	2	ministration	1
			English	10	Science	1	Geriatrics	2	Pharmacology	1
			Group Dynam.	3	Soc. Psych.	1	Interpersonal	1	Phys. Therapy	1
			Human Relat.	4	Sociology	2	Relations	1	Psych. Nursing	3
			Liberal Arts	2	Teach. Methods	2	Management	6	Supervision	5
			Mathematics	6						
Nurse, Instructor	College	31	Accounting	1	Chemistry	1	Bedside Care	3	Geriatrics	1
			Anatomy	3	English	6	Body Mechan.	3	Management	3
			Bacteriology	1	Human Relations	2	Clinical Nurs.	1	Medical-Surg.	2
			Biology	2	Liberal Arts	1	Counseling	1	Nursing	2

HOSPITALS

O C C U P A T I O N	F O R M A L E D U C A T I O N			C O U R S E				C O N T E N T			
	Level	Resp.	G E N E R A L				Resp.	S P E C I A L I Z E D			
			Subject	Resp.	Subject	Resp.		Subject	Resp.	Subject	Resp.
Nurse, Instructor (Continued)			Mathematics	4	Science	1		New Equip. &		Pharmacology	1
			Physics	3	Sociology	1		Techniques	1	Psychiatric	
			Physiology	2	Teach.Methods	14		Nursing Cur-		Nursing	1
			Psychology	4				riculum	7		
Nurse, Staff	College Diploma Sch.	5	Anatomy	5	Mathematics	8		Bedside Care	5	Nutrition	1
		31	Bacteriology	1	Personality,			Body Mechan.	2	Pharmacology	2
			Biology	5	Theories of	1		Community		Phys. Therapy	1
			Chemistry	3	Physics	5		Health	1	Psychiatric	
			English	12	Physiology	2		Geriatrics	3	Nursing	4
			Group Dynam.	3	Psychology	5		Medical-Surg.		Rehabilitation	
	College Diploma Sch. Tech. Institute High Sch.+ 1 yr High School		Human Relations	3	Psychology	1		Nursing	3	Techniques	2
			Liberal Arts	1	Science	1		Nursing Cur-		Team Leader-	
					Sociology	2		riculum	4	ship	1
Nurse, Anesthetist	College Diploma Sch. Tech. Institute High Sch.+ 1 yr High School	5	Biology	4	Mathematics	3		Anesthesiology	9	Nurs. Curric.	4
		9	Chemistry	3	Physics	3		Bedside Care	1	Oxygen Therapy	2
		1	English	3	Science	1					
		2	Liberal Arts	1							
Nurse, Licensed Practical	High School + one year	34									
			Anatomy	4	Physiology	2		Asepsis	1	Nurs. Ethics	1
			Bacteriology	1	Psychology	3		Bedside Care	8	Nurs. Prin.	4
			Biology	2	Reading	1		Body Mechan.	4	Nutrition	1
			Chemistry	1	Science	1		Clinical Nurs.	1	On-the-job	
			English	5	Sociology	1		Community		Training	1
			Hygiene	1	Spelling	1		Health	1	Patient Care-	
			Mathematics	5				First Aid	1	General	2
								Geriatrics	4	Pharmacology	4
								LPN Curriculum	7	Rehabilitation	
								Management	1	Techniques	1
								Medical-Surg.		Safety Skills	1
								Nursing	2		

OCCUPATION	FORMAL EDUCATION		C O U R S E				C O N T E N T			
			GENERAL		SPECIALIZED		SPECIALIZED		SPECIALIZED	
	Level	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.
Nurse Aide	High School	31	Anatomy	1	Pers.Decorum	1	Asepsis	1	Nursing Pro-	2
	Elementary Sch.	1	Bacteriology	1	Pers.Groom.	1	Bed Making	2	cedures	
			Biology	3	Pers.Hygiene	4	Bedside Care	7	On-the-job	4
			English	8	Psychology	2	Body Mechan.	6	Training	
			Ethics	1	Science	2	Charting	1	Patient Care-	2
			Mathematics	3	Spelling	1	First Aid	1	General	
							Geriatrics	4	Specialized	1
							Home Nursing	1	Equipment	1
							Med. Terms	1	Transporting	1
							Nurs. Ethics	1	Patients	1
Psychiatric Aide	Hi.Sch. + 1 yr.	1	Biology	2	Physiology	1	Body Mechan.	2	Patient Care-	1
	High School	11	English	3	Psychology	2	Geriatrics	1	General	
	Elementary Sch.	1	Mathematics	1			LPN Curriculum	1	Psychiatric	4
			Personality,	2			On-the-job	1	Nursing	
			Theories of				Training			
Rehabilitation Aide	College	1	Anatomy	1	Physiology	1	Body Mechan.	3	On-the-job	2
	High School	10	Biology	1	Psychology	1	Community	2	Training	
			English	2	Sociology	1	Service	1	Rehabilitation	1
			Mathematics	1			Geriatrics	1	Techniques	
							Nursing Pro-	1		
Orderly	High School	21	Anatomy	2	Pers.Decorum	1	Asepsis	4	On-the-job	4
	Elementary Sch.	1	Bacteriology	1	Pers.Hygiene	2	Bed Making	1	Training	
			Biology	3	Physiology	1	Bedside Care	9	Operating Rm.	1
			English	6	Psychology	2	Body Mechan.	8	Procedures	1
			Ethics	1	Sociology	1	Geriatrics	2	Safety Skills	1
			Mathematics	1	Spelling	1	Hosp.Procedure	1	Transporting	1
							Medical Terms	1	Patients	
							Nurs.Procedure	2		

HOSPITALS

OCCUPATION	FORMAL EDUCATION		C O U R S E				C O N T E N T			
			G E N E R A L				S P E C I A L I Z E D			
	Level	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.
Pharmacy Helper	Tech. Inst.	1	Accounting	1	Mathematics	9	On-the-job Training	6		
	Junior College	2	Bacteriology	1	Physics	2	Pharmacology	1		
	High School	15	Biology	6	Science	1				
			Chemistry	8	Typing	1				
E.E.G. Technician			English	1						
	Tech. Inst.	2	Anatomy	1	Mathematics	5	E.E.G. Techniques	4	On-the-job Training	4
	Junior College	1	Biology	5	Physics	4	Equipment Use			
	Hi.Sch.+ 1 yr.	1	Chemistry	1	Physiology	1	and Care	2		
E.K.G. Technician	High School	12	English	6	Psychology	1				
	Tech. Inst.	1	Anatomy	1	Mathematics	6	E.K.G. Techniques	3	On-the-job Training	7
	Junior College	1	Biology	8	Physics	3	Equipment Use			
X-Ray Technician	High School	22	Chemistry	1	Psychology	1	and Care	2		
			English	7						
	Tech. Inst.	8	Anatomy	6	Physics	11	Bedside Care	1	Pathology	1
	Junior College	14	Biology	9	Physiology	1	Body Mechan.	2	Techniques	14
Cytotechnician	High School	7	Chemistry	3	Psychology	2	Geriatrics	1		
			English	5	Science	1				
			Mathematics	9	Typing	1				
	College	5	Biology	13	Microbiology	1	Cytology	5	Microscopy	2
Medical Laboratory Technician	Tech. Inst.	6	Chemistry	7	Physics	4	Hematology	1	On-the-job Training	3
	Junior College	7	English	5	Zoology	1	Histology	1		
	High School	2	Mathematics	6						
	College	13	Anatomy	1	Mathematics	11	Blood Chemist.	2	Histology	2
	Tech. Inst.	6	Bacteriology	3	Microbiology	1	Clin. Training	1	Lab. Techniq.	4
	Junior College	2	Biology	18	Physics	3	E.E.G. Technq.	1	Med. Technol.	2
	Hi.Sch.+ 1 yr.	5	Chemistry	14	Science	1	E.K.G. Technq.	1	Microscopy	1
	High School	7	English	7			Equipment Use	1	On-the-job Training	1
							and Care	1	Test Procedure	2
							Hematology	2		

OCCUPATION	FORMAL EDUCATION		C O U R S E				C O N T E N T			
			GENERAL				SPECIALIZED			
	Level	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.
Operating Room Technician	Diploma Sch.	1	Anatomy	6	Mathematics	2	Anesthesia	1	Operating Rm.	
	Hi.Sch.+ 1 yr.	10	Bacteriology	1	Microbiology	1	Asepsis	3	Procedures	2
	High School	12	Biology	5	Physics	1	Body Mechan.	2	Pharmacology	1
			Chemistry	4	Physiology	2	Clin. Train.	1	Safety Skills	3
			English	3	Psychology	1	Equipment Use	1	Sterile Tech- niques	3
Inhalation Therapist							and Care	4	Surgical Instruments	1
							On-the-job Training	6		
Formula Room Worker			Algebra	2	Mathematics	6	Bedside Care	1	Inhalation Techniques	3
			Anatomy	7	Microbiology	1	Cardiopulmonary physiology	1	On-the-job Training	4
			Bacteriology	1	Physics	9	Equipment Use and Care	3	Oxygen Use	2
			Biology	11	Physiology	4	Geriatrics	1	Sterile Tech.	1
			Chemistry	14	Psychology	1				
Pediatric Technician			English	4						
Physical Therapist Aide			Bacteriology	1	Mathematics	1	First Aid	1	Sterile Techniques	2
			Hygiene	4			On-the-job Training	3		
Social Service Case Aide			Biology	1	Mathematics	1	Bedside Care	1	On-the-job Training	3
			Economics	1	Spelling	1	Infant Care	5		
			English	5						
			Foreign Lang.	4						
Social Service Case Aide										
Social Service Case Aide										
Social Service Case Aide										
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OCCUPATION	FORMAL EDUCATION	C O U R S E				C O N T E N T				
		G E N E R A L				S P E C I A L I Z E D				
		Level	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.	
Central Supply Worker	College	1	Bacteriology	2	Hygiene	1	Asepsis	1	Organization	2
	Hi.Sch.+ 1 yr	1	Bus. Math.	2	Record Keep.	2	Body Mechan.	1	Specialized	1
	High School	21	English	2	Science	1	Medical Termi-	1	Equipment	1
	Elementary Sch	2	Health	1			nology	1	Sterile Tech-	3
							On-the-job	6	niques	
Medical Secretary	College	1	Anatomy	4	Liberal Arts	1	Medical	3	On-the-job	2
	Diploma Sch.	1	Biology	7	Mathematics	1	Dictation	3	Training	2
	Junior College	21	Bookkeeping	2	Physiology	2	Medical	16	Psychiatric	1
	Hi.Sch.+ 1 yr	2	Commercial	4	Shorthand	9	Terminology	1	Terminology	1
	High School	8	Course	12	Spelling	2	Medical	3	Record Keeping	1
Bookkeeping Clerk	College	1	English Lang.	1	Typing	14	Transcription	3		
	Tech. Inst.	1	Accounting	6	English	9	Business Ad-	1	On-the-job	4
	Junior College	1	Bookkeeping	14	Mathematics	11	ministration	1	Training	
	Hi.Sch.+ 1 yr	3	Bus. Machines	2	Spelling	1	Office Pro-	1		
	High School	21	Bus. Math	3	Typing	3	cedures	1		
Computer Operator	Tech. Inst.	6	Accounting	1	English	4	Computer	6	Wiring and	1
	High School	10	Basic Business	2	Mathematics	6	Course	2	Programming	
			Bookkeeping	1	Spelling	1	Statistics	2		
			Bus. Math	1	Typing	1				
Key Punch Operator	Tech. Inst.	4	Accounting	1	English	7	Key Punch	5	On-the-job	1
	High School	14	Bookkeeping	1	Mathematics	5	Course		Training	
	Elementary Sch	1	Bus. Math	1	Spelling	1				
			Commercial	1	Typing	6				
			Course							

OCCUPATION	FORMAL EDUCATION				C O U R S E				C O N T E N T			
	EDUCATION				GENERAL				SPECIALIZED			
	Level	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.
Tabulating Machine Operator	Junior College	2	Accounting	1	English	2	On-the-job Training	2	Tabulating Course	3		
	High School	9	Bookkeeping Bus. Math. Commercial Course	4 3 1	Spelling Typing	1 2						
Junior Programmer	College	2	Accounting	1	English	4	Administration	1	Systems Analysis	1		
	Tech. Inst.	2	Bookkeeping	1	Mathematics	6	Computer Training	2	Wiring and Programming	3		
	Junior Colleg.	3	Bus. Math.	1	Physics	1	Statistics	1				
	Hi.Sch.+ 1 yr	2	College Business	1	Spelling	1						
	High School	3	Commercial Course	1	Typing	1						
Nursing Unit Clerk	Junior Colleg.	1	Anatomy	2	English	9	Charting	1	On-the-job Training	2		
	Hi.Sch.+ 1 yr	1	Biology	1	Liberal Arts	1	Hospital Orientation	1	Reception Tech.	1		
	High School	22	Clerical Train.	4	Mathematics	4	Medical Terminology	3	Telephone Etiquette	1		
			Commercial Course	2	Psychology	1						
			Communication	1	Spelling	1						
Dietitian	College	31	Accounting	1	Mathematics	4	Dietetics	8	Nutrition	11		
			Bacteriology	1	Physiology	2	Employee Relations	2	Quantity	3		
			Biology	2	Psychology	2	Food Management	5	Cooking Supervision	1		
			Chemistry	6	Science	1	Menu Planning	1	Therapeutic Diets	1		
			English Foreign Lang.	1	Teaching, Principles of	2						
Assistant Dietitian	College	16	Accounting	1	Physiology	1	Dietetics	6	Menu Planning	1		
	Tech. Inst.	1	Bacteriology	1	Psychology	2	Employee Relations	1	Nutrition	4		
	Junior Colleg.	1	Chemistry	1	Science	2	Food Management	4	On-the-job Training	5		
	High School	8	English Mathematics	5	Teaching, Principles of	1	Home Economics	1	Therapeutic Diets	1		

HOSPITALS

OCCUPATION	FORMAL EDUCATION			C O U R S E			C O N T E N T			
				G E N E R A L			S P E C I A L I Z E D			
	Level	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.	Subject	
Chef	Tech. Inst.	11	Bacteriology	1	Hygiene	1	Baking	4	Meat Cutting	4
	High School	9	Chemistry	1	Mathematics	2	Dietetics	1	Menu Planning	4
	Elementary Sch	2	English	4	Psychology	1	Economics of Cook.& Purch.	2	Nutrition	1
							Equipment Use and Care	2	On-the-job Training	3
							Food Managemt.	3	Portion Control	1
Cook							Literature of Cooking	1	Quantity Cook.	10
	Tech. Inst.	9	English	3	Mathematics	2	Baking	1	Menu Planning	2
	Hi.Sch.+ 1 yr	1	Hygiene	1			Economics of Cook.& Purch.	1	Nutrition	2
	High School	13					Equipment Use and Care	1	On-the-job Training	5
	Elementary Sch	2					Literature of Cooking	2	Quantity Cook.	6
Cook Helper	Hi.Sch.+ 1 yr	1	English	4	Mathematics	1	Equipment Use and Care	1	Quantity Cook.	2
	High School	15	Hygiene	2			On-the-job Training	6		
	Elementary Sch	7								
Meat Cutter	Tech. Inst.	3	Anatomy	2	English	2	On-the-job Training	2		
	High School	6	Biology	2	Mathematics	3				
	Elementary Sch	1								
Baker	Tech. Inst.	10	English	2	Mathematics	2	Baking - Quantity Equipment Use and Care	5	Nutrition	1
	High School	5	Hygiene	2					On-the-job Training	3
	Elementary Sch	1								

Table XXII
Minimum Educational Requirements
CONVALESCENT AND REST HOMES

O C C U P A T I O N	F O R M A L E D U C A T I O N		G E N E R A L		C O N T E N T S P E C I A L I Z E D	
	Level	Resp.	Subject	Resp.	Subject	Resp.
Nurse, Supervisor	College	8	Anatomy	2	Administration	1
	Diploma School	2	Biology	2	Bedside Care	2
			Chemistry	1	Body Mechan.	1
			Economics	1	Geriatrics	3
			English	3	Group Dynam.	1
					Interpersonal	2
					Relations	1
					Legal Aspects	1
					Management	1
					Nurs. Curric.	2
					Nurs. Ethics	1
					Personnel Tech.	2
					Pharmacology	1
					Psych. Nursing	2
					Supervision	2
					Work Simpli- fication	1
Nurse, Head	College	3	Anatomy	3	Administration	2
	Diploma School	28	Biology	2	Bedside Care	3
			Chemistry	1	Body Mechan.	1
			Communication	1	Geriatrics	20
			Economics	1	Group Dynam.	1
			English	5	Interpersonal	3
			Health	1	Relations	1
					Nurs. Curric.	13
					Nurs. Ethics	1
					Pharmacology	1
					Personnel Tech.	2
					Psych. Nursing	1
					Supervision	3
					Unit Management.	2
Nurse, Staff	College	1	Anatomy	4	Bedside Care	7
	Diploma School	52	Biology	3	Body Mechan.	2
			Chemistry	2	Geriatrics	32
			Communication	1	Interpersonal	1
			English	6	Relations	1
			Foreign Lang.	2	Nurs. Curric.	27
					Nursing Ethics	1
					Pharmacology	1
					Phys. Therapy	1
					Psychiatric	2
					Nursing	1
					Supervision	1

CONVALESCENT AND REST HOMES

OCCUPATION	FORMAL EDUCATION		COURSE				CONTENT SPECIALIZED			
	Level	Resp.	GENERAL		SPECIALIZED		Subject	Resp.	Subject	Resp.
			Subject	Resp.	Subject	Resp.				
Nurse, Licensed Practical	Hi.Sch.+ 1 yr	49	Anatomy	3	Microbiology	1	Bedside Care	9	On-the-job	1
			Biology	1	Pers.Developmt	1	Body Mechan.	2	Training	2
			English	7	Pers.Hygiene	1	Geriatrics	30	Patient Care-	2
			Ethics	3	Physiology	2	LPN Curric.	15	General	2
			Health	1	Psychology	10	Management	1	Pharmacology	2
			Human Relations	1	Science	1	Nurs. Ethics	4	Psychiatric	3
			Mathematics	2			Nurs. Prin.	1	Nursing	
Nurse Aide	High School Elementary Sch	29 18	Anatomy	12	Pers. Hygiene	2	Bedside Care	25	Patient Bathing	9
			Biology	4	Physiology	1	Body Mechan.	11	and Grooming	9
			English	6	Psychology	5	Charting	1	Patient Care-	9
			Ethics	4	Pub.Relations	1	Dietary Prin.	1	General	2
			Gen. Educ.	1	Pub.Speaking	1	Equipment Use	1	Psychology of	2
			Gen.Housekeep.	1	Soc. Amenities	1	and Care	9	Aged	1
			Human Relations	1			Geriatrics	2	Sanitation	1
Rehabilitation Aide	High School	1	Biology	1	English	1	Bedside Care	1	Geriatrics	1
							Body Mechan.	1		
Orderly	High School Elementary Sch.	22 6	Anatomy	10	Physiology	1	Bedside Nurs.	3	Patient Bathing	2
			Biology	3	Psychology	3	Body Mechan.	21	and Grooming	2
			English	5	Pub.Speaking	1	Geriatrics	4	Patient Care-	1
			Human Relations	1	Soc. Amenities	1	Housekeeping	1	General	1
			Pers. Hygiene	1			On-the-job	1		
Physical Therapy Aide	Junior College High School	2 3	Anatomy	1	English	4	Bedside Care	1	Phys. Therapy	1
			Biology	3	Psychology	1	Body Mechan.	4	Methods	1
							Geriatrics	2		

CONVALESCENT AND REST HOMES

OCCUPATION	FORMAL EDUCATION		C O U R S E				C O N T E N T			
			GENERAL				SPECIALIZED			
	Level	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.
Medical Secretary	High School	1	Typing	1			Record Keeping	1		
	College	1	English	1	Mathematics	1	Charting	1	Record Keeping	1
Medical Record Clerk	Diploma School	1	Commercial	1	Shorthand	1	Medical Termi-	2		
	Junior College	1	Course	1	Typing	2	nology			
	High School	2								
Recreation Director	College	1	English	2	Psychology	22	Arts & Crafts	25	Organization	1
	Junior College	10	Human Relations	5	Pub. Relations	1	Geriatrics	7	Psychiatry	1
	Hi.Sch.+ 1 yr	1	Liberal Arts	1	Soc. Service	1	Group Dynam.	1	Recreation	2
	High School	31	Music	1	Sociology	1	Motivation	1	Therapy	
Dietitian	College	17	Biology	2	Mathematics	2	Dietetics	8	Nutrition	1
			Chemistry	1	Science	1	Food Managemt.	2	Quan. Cooking	1
			English	3	Sociology	1	Geriatrics	4	Therapeutic	
							Marketing	1	Diets	6
							Menu Planning	1		
Chef	Elementary Sch.	1					Quantity Cook-	1		
							ing			
Cook	Tech. Inst.	6	Biology	1	Health	1	Economics of		Personnel Ad-	1
	Hi.Sch.+ 1 yr	1	English	4	Mathematics	3	Cook.& Purch.	18	Justments	43
	High School	26	Gen. Educ.	1	Pers.Hygiene	2	Equipment Use	1	Quan. Cooking	4
	Elementary Sch.	18					and Care	1	Sanitation	
							Food Managemt.	1	Therapeutic	36
							Geriatrics	3	Diets	
							Menu Planning	25		
							On-the-job			
							Training	1		

OCCUPATION	FORMAL EDUCATION				C O U R S E				C O N T E N T			
	SPECIALIZED				GENERAL				SPECIALIZED			
	Level	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.	Subject	Resp.
Cook Helper	Tech. Inst.	1	English	3	Mathematics	1	Equipment Use	2	Personnel	1	Adjustments	1
	Junior College	1	Gen. Educ.	1	Pers. Hygiene	2	and Care	2	Quan. Cooking	6	Sanitation	4
	High School	10					Geriatrics	2	Memu Planning	2	Therapeutic	3
	Elementary Sch.	12					On-the-job Training	1	Diets	3		
Food Service Supervisor	High School	1	Bookkeeping	1	Mathematics	1	Quan. Cooking	1	Sanitation	1		
Dietary Aide	High School	12	English	1	Mathematics	1	Geriatrics	1	Quan. Cooking	1		
	Elementary Sch.	21	Gen. Educ.	2	Pers. Hygiene	7	Nutrition	1	Sanitation	14		
							On-the-job Training	3	Diets	2		
							Psychology of the Aged	4	Tray Preparation	1		
Laundress	High School	7	English	1	Home Economics	1	Equipment Use	6	Sanitation	6		
	Elementary Sch.	20	Gen. Educ.	1	Mathematics	1	and Care	5				
							On-the-job Training					
Maintenance-General	Tech. Inst.	2	English	1	Mathematics	1	Equipment Use	3	Sanitation	3		
	High School	10					and Care	9	Service School	1		
	Elementary Sch.	17					Gen. Maintenance	17	Course			
							Procedures	1				
							On-the-job Training	1				

APPENDIX

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HEALTH OCCUPATIONS STUDY

Institution _____

Respondent _____

Title _____

Conducted by

The University of Connecticut

in cooperation with

Division of Vocational Education

State Department of Education

Date _____

Interviewer _____

Current Beds _____

Estimated Beds 1971 _____

Estimated Beds 1976 _____

HEALTH OCCUPATIONS STUDY
CONNECTICUT
PART I
ESTIMATED DEMAND
1967 to 1971 and 1976

OCCUPATION See attached list of definitions TITLE CODE	CURRENT EMPLOYMENT			CURRENT JOB VACANCIES (Number you would fill now if qualified wrkrs.available)	NUMBER OF NEW JOBS (Expansion)	EXPECTED WITH- DRAWALS FROM HEALTH FIELD (marriage, family, retirement, other business or industry)	COMMENTS
	TOTAL	FULL TIME	PART TIME				
I	II	III	IV	V	VI	VII	VIII
<u>NURSING</u>					1971 1976	1971 1976	
Nurse, Suprv. 075.128							
Nurse, Head 075.128					1971 1976	1971 1976	
Nurse, Instructor 075.128					1971 1976	1971 1976	
Nurse, Staff 075.378					1971 1976	1971 1976	
Nurse Anesthetist 075.378					1971 1976	1971 1976	
Nurse, Lic. Practical 079.378					1971 1976	1971 1976	
Nurse Aide 355.878					1971 1976	1971 1976	
Psychiatric Aide 355.878					1971 1976	1971 1976	
Rehabilitation Aide 355.878					1971 1976	1971 1976	

H.O.S. L.E.C. 1/67

HEALTH OCCUPATIONS STUDY
C O N N E C T I C U T
P A R T II
MINIMUM EDUCATIONAL REQUIREMENTS

<u>OCCUPATION</u> See attached list of definitions	<u>FORMAL EDUCATION</u> High School Hi.Sch. plus one Junior College Tech. Institute Diploma School College	<u>C O U R S E C O N T E N T</u> List courses of <u>special importance</u> to the occupation.		<u>COMMENTS</u>
		GENERAL (biology, English, math, physics)	SPECIALIZED (bedside care, body mechanics, geriatrics, radiology)	
I	II	III	IV	V
<u>NURSING</u>				
Nurse, Suprv. 075.128				
Nurse, Head 075.128				
Nurse, Instructor 075.128				
Nurse, Staff 075.378				
Nurse Anesthetist 075.378				
Nurse, Lic. Practical 079.378				
Nurse Aide 355.878				
Psychiatric Aide 355.878				
Rehabilitation Aide 355.878				
H.O.S. L.E.C. 1/67				APPENDIX A

THE UNIVERSITY OF CONNECTICUT
STORRS, CONNECTICUT
06268

LETTER SENT TO

HOSPITALS

Dear - - - :

The University of Connecticut, under the sponsorship of the Division of Vocational Education of the State Department of Education, is conducting a study of health occupations in Connecticut.

The purpose of this study is to ascertain employment opportunities in this field, and to identify those occupations which have potential for program developments in vocational education at the secondary and post secondary school levels.

In a few days our field investigator, Mrs. Barbara Lownds, will be calling you for an appointment. We will greatly appreciate your cooperation.

Very truly yours,

David Pinsky
David Pinsky
Professor of Labor Education
Labor Education Center

THE UNIVERSITY OF CONNECTICUT
STORRS, CONNECTICUT
06268

LETTER SENT TO

DENTISTS

Dear Doctor:

The University of Connecticut is conducting a study to determine future needs in the field of health occupations. The study, which is sponsored by the Department of Health, Education and Welfare, will be used by the State Department of Education and other institutions to establish training programs in secondary and post secondary schools.

We have already surveyed the needs for personnel in physicians' offices, hospitals, convalescent homes and in public health. In order to get the complete picture, it is necessary to obtain similar data from dentists in private practice. The purposes and methods of this study have been discussed in detail with and approved by the Connecticut State Dental Association.

Although we recognize that future expansion and replacement needs are difficult to predict, we feel that the dentist himself is in the best position to make this estimate.

Your cooperation in this study may prove invaluable in helping to meet your future needs regarding auxiliary personnel.

Will you kindly complete the enclosed form and return it to us. If there is any question regarding the study or the form itself, please do not hesitate to call.

Very truly yours,

David Pinsky
David Pinsky
Professor of Labor Education
Labor Education Center

Health Occupations
Study
Connecticut

HOSPITALS

Nurse, Supervisor
Nurse, Head
Nurse, Instructor
Nurse, Staff
Nurse Anesthetist
Nurse, Licensed Practical
Nurse Aide
Psychiatric Aide
Rehabilitation Aide
Orderly
Pharmacy Helper
E.E.G. Technician
E.K.G. Technician
X-Ray Technician
Cytotechnician
Laboratory Technician
Operating Room Technician
Inhalation Therapist
Formula Room Worker
Pediatric Technician
Physical Therapist Aide
Social Service Case Aide
Central Supply Worker
Medical Secretary
Bookkeeping Clerk
Computer Operator
Key Punch Operator
Tabulating Machine Operator
Junior Programmer
Nursing Unit Clerk
Dietitian
Assistant Dietitian
Chef
Cook
Cook Helper
Meat Cutter
Baker
Food Service Supervisor

O C C U P A T I O N S S T U D I E D

CONVALESCENT & REST HOMES

Nurse, Supervisor
Nurse, Head
Nurse, Staff
Nurse, Licensed Practical
Nurse Aide
Rehabilitation Aide
Orderly
Medical Laboratory Technician
Physical Therapist Aide
Recreation Director
Dietitian
Chef
Cook
Cook Helper
Food Service Supervisor
Dietary Aide
Medical Secretary
Medical Record Clerk
Laundress
Maintenance-General

PHYSICIANS

Nurse, Staff
Nurse Anesthetist
Nurse, Licensed Practical
Nurse Aide
E.E.G. Technician
X-Ray Technician
Laboratory Technician
Medical Secretary
Secretary-Receptionist

DENTISTS

Nurse, Staff
Dental Hygienist
Dental Assistant (Chairside)
Secretary-Dental Assistant
Secretary-Receptionist
Dental Laboratory Technician

PUBLIC HEALTH

Nurse, Supervisor
Nurse, Head
Nurse, Staff
Nurse, Licensed Practical
Nurse Aide
Mental Retardation Aide
Psychiatric Aide
Orderly
E.E.G. Technician
X-Ray Technician
Medical Laboratory Technician
Dental Hygienist
Physical Therapist Aide
Social Service Case Aide
Central Supply Worker
Medical Secretary
Bookkeeping Clerk
Key Punch Operator
Nursing Unit Clerk
Dietitian
Chef
Cook
Cook Helper
Baker
Food Service Supervisor

EMPLOYERS HEALTH CLINICS

Nurse, Supervisor
Nurse, Staff
Nurse, Licensed Practical
First Aider
E.K.G. Technician
X-Ray Technician
Medical Laboratory Technician
Dental Hygienist
Medical Secretary

DEFINITION OF TITLES

075.128 Nurse, Supervisor

Supervises and coordinates activities of nursing personnel engaged in specific nursing service, such as obstetrics, orthopedics, pediatrics, and surgery. Plans and organizes orientation and in-service training programs for staff members.

075.128 Nurse, Head

Directs nursing activities and instructs nurses in organized hospital unit. Assigns duties and coordinates nursing services. Orders, or directs ordering of drugs, solutions, and equipment, and accounts for narcotics.

075.128 Nurse, Instructor

Demonstrates and teaches patient care in classroom and clinical units to nursing students. Instructs students in principles and application of physical, biological, and psychological subjects related to nursing.

075.378 Nurse, Staff (General Duty Nurse, Registered Nurse, Professional Nurse)

Renders general nursing care to patients in hospital, infirmary, sanitarium, or similar institution, administering prescribed medications and treatments in accordance with approved nursing techniques. Aids physician during treatment and examination of patients. May rotate among various clinical services of institution. May assist with operations and deliveries.

075.378 Nurse Anesthetist

Administers intravenous, spinal, and other anesthetics to render persons insensible to pain during surgical operations, deliveries, or other medical and dental procedures. May give patient postoperative care as directed.

079.378 Nurse, Licensed Practical

Under supervision of physician or staff nurse, cares for ill, injured, convalescent and handicapped persons. Takes and records temperature, blood pressure, pulse and respiration rate. Applies compresses, ice bags and hot water bottles. Administers specified medicine. Attends to routine duties in care of patients.

355.878 Nurse Aide (Hospital Attendant or Nursing Assistant)

Assists in care of hospital patients, under direction of nursing and medical staff. Answers lights and bells. Bathes and dresses patients. Serves food and feeds patients. Transports patients. Assists with examinations. Cleans rooms. Takes and records temperature, pulse and respiration rates, and food and liquid intake and output. May apply compresses and hot water bottles.

355.878 Mental Retardation Aide

Attends to physical needs and well-being of mentally retarded patients. Aids in teaching and recreation processes under supervision of professional staff.

355.878 Psychiatric Aide

Assists mentally ill patients, working under direction of nursing and medical staff. Assists patients in grooming, feeding, in becoming accustomed to hospital routine. Encourages them to participate in activities which promote rehabilitation. Aids or restrains to prevent injury. Administers prescribed medications.

355.878 Rehabilitation Aide

Assists in restoring physical, emotional and social effectiveness of medical patients and other disabled persons. Encourages patients to participate in activities which promote rehabilitation.

355.878 Orderly

Performs any of the following duties as directed by nursing and medical staff to care for hospitalized male patients: bathes patients, gives rubs, cleans and shaves operative areas, lifts and transports patients, assists physician in putting on casts and braces. May administer enemas and catheterizations. Sets up equipment such as oxygen tents, x-ray machines and bone fracture equipment. Does cleaning and routine jobs.

074.387 Pharmacy Helper (Pharmacy Clerk)

Mixes pharmaceutical preparations, under direction of pharmacist. Issues medicines, labels and stores supplies, and cleans equipment and work areas in hospital pharmacy. Prepares inventory and orders supplies.

078.368 E.E.G. Technician (Electroencephalograph Technician)

Measures impulse frequencies and differences in electrical potential between various portions of the brain, using equipment that records data as a series of irregular lines on a continuous graph to be used by medical practitioner in diagnosing brain disorders.

078.368 E.K.G. Technician (Electrocardiograph Technician)

Records electromotive variations in actions of heart muscle, using electro-cardiograph machine, to provide data for diagnosis of heart ailments.

078.368 X-Ray Technologist (Radiologic Technologist)

Applies roentgen rays and radioactive substances to patients for diagnostic and therapeutic purposes. Develops film in accordance with photographic techniques. Prepares reports and maintains records of services rendered.

078.381 Cytology Technician (Cytotechnician)

Performs routine laboratory tests to determine pathological condition of cells of the human body. Stains and mounts cells to aid in diagnosing nature and extent of disease or cellular damage.

078.381 Laboratory Technician (Medical Laboratory Assistant, Medical Technician)

Performs routine tests in medical laboratory for use in treatment and diagnosis of disease. Prepares tissue samples, takes blood samples and prepares vaccines. Executes urinalyses and blood counts. Under supervision, makes quantitative and qualitative chemical and biological analyses of body specimens.

079.378 Operating Room Technician (Surgical Technician, Surgical Orderly)

Assists at operations by preparing operative area of patient and arranging and passing instruments under direct supervision of a registered nurse or physician. Maintains specified supply of such fluids as plasma, saline, blood and glucose for use during operation. Adjusts lights and other equipment as directed. Washes and sterilizes equipment. Cleans operating room. May assist in administering blood, plasma, or other injections and transfusions.

079.368 Inhalation Therapist (Oxygen-Therapy Technician)

Sets up and operates various types of oxygen equipment, such as iron lungs, oxygen tents, resuscitators and incubators to administer oxygen and other gases to patients.

078.368 Dental Hygienist

Performs dental prophylactic treatments and instructs groups and individuals in care of teeth and mouth. Charts conditions of decay and disease for diagnosis and treatment by dentist.

079.378 Dental Assistant (Chairside only)

Records patients medical history and dental treatment rendered. Arranges instruments, materials and medications and hands them to dentist as required. Keeps oral operating area clear. Prepares dental amalgam. Sterilizes instruments. May expose and process x-ray films.

079.378 Secretary-Dental Assistant

Performs same duties as Dental Assistant (chairside) in addition to which receives patients, schedules appointments, collects fees for services, answers telephone, orders supplies and pays bills.

712.381 Dental Laboratory Technician

Constructs and repairs dental appliances, according to dentist's prescription. Fabricates full and partial dentures. Constructs crowns, inlays and wire frames. Constructs porcelain teeth. Tests completed appliance for occlusal harmony.

317.887 Formula Room Worker

Prepares, bottles and sterilizes infant formulas.

355.878 Pediatric Technician (Nurse Aid, nursery)

Bathes, weighs, dresses and feeds newborn babies under direction of nursing and medical staff.

355.878 Physical Therapist Aide (Physical Therapy Attendant)

Prepares patients for treatment by physical therapist. Assists patients in dressing, undressing, and moving about. Sets up and assembles such equipment as hydrotherapy tanks and vibrators. May assist in fitting patients with corsets, braces, and hand splints.

195.208 Social Service Case Aide

Aids patients and their families with personal and environmental difficulties which predispose illness or interfere with obtaining maximum benefits from medical care. Works on simpler aspects of cases or provides service to less complex cases under close and regular supervision of caseworker.

223.887 Central Supply Worker (Central Supply Aide)

Cleans, sterilizes, and assembles hospital equipment, supplies, and instruments according to prescribed procedures and techniques. Stores prepared articles and supplies. May fill requisitions, write charges and inventory supplies.

201.368 Medical Secretary

Prepares medical charts and reports for doctor or hospital personnel, utilizing knowledge of medical terminology. May prepare and send bills to patients and record appointments.

237.368 Secretary-Receptionist (Physician or Dentist's Office)

Greets patients. Schedules appointments. Gives information to callers. May prepare and send bills to patients and record appointments. Files correspondence and other records. May take dictation. Composes and types routine correspondence.

210.388 Bookkeeping Clerk (Bookkeeper)

Keeps one section of set of financial records. Verifies and enters details of transactions in account and cash journals. Summarizes details and transfers data to general ledger. Balances books and compiles reports.

213.382 Computer Operator (Digital-Computer Operator or Console Operator)

Monitors and controls electronic digital computer to process business, scientific, or other data, according to operating instructions.

213.582 Key-Punch Operator (Card-Punch Operator, Printing-Card-Punch Operator)

Operates alphabetic and numeric key-punch machine, similar in operation to electric typewriter, to transcribe data from source material onto punch cards and produce prepunched data. May tend machines that automatically sort, merge, or match punchcards into specific groups.

213.782 Tabulating Machine Operator (Tabulating-Equipment Operator, Tabulator Operator)

Operates machine that processes data from tabulating cards into printed records.

- 219.388 Junior Programmer (Detail Programmer or Program Coder)
Selects symbols from coding system peculiar to make or model of digital computer and applies them to successive steps of completed program for conversion to machine processable instructions. Usually works with Programmer, performing such additional tasks as converting flow charts and diagram of simple problem from rough to finished form, or making minor changes in established programs to adapt them to new requirements.
- 219.388 Nursing Unit Clerk (Floor Clerk)
Prepares and compiles records in hospital nursing unit, such as obstetrics, pediatrics, or surgery. Keeps file of medical records of patients in unit, including temperature, pulse rate, blood pressure and diet instructions. Keeps time records on unit personnel. Requisitions supplies as directed. Answers telephone, directs visitors and distributes mail, flowers, etc.
- 249.388 Medical-Record Clerk
Classifies medical records of patients and compiles statistics for use in reports and surveys. Keeps daily statistical record of information such as admissions, discharges, deaths, births, and types of treatment rendered.
- 079.128 Recreation Director (Recreational Therapist)
Plans, organizes and directs medically approved recreation program for patients in hospitals and other institutions. Directs and organizes such activities as adapted sports, dramatics, social activities and arts and crafts, regulating program in accordance with patients' capabilities, needs and interest.
- 077.168 Dietitian
Plans and directs food service program. Plans menus and diets. Directs workers engaged in preparation and serving of meals. Maintains and analyzes food cost control records to determine improved methods for purchasing and utilization of food, equipment and supplies. May instruct individuals and groups in application of principles of nutrition to selection of food.
- 079.588 Assistant Dietitian (Diet Clerk or Diet Aide)
Compiles dietary information for use by kitchen personnel in preparation of foods for hospital patients. Processes new diets and changes as required. May check trays for errors. May keep records of and prepare reports on perpetual inventory, food purchases, total meals served, and food costs.
- 313.131 Chef (Chief Cook or Kitchen Chef)
Supervises, coordinates, and participates in activities of cooks and other kitchen personnel engaged in preparing and cooking foods. Estimates food consumption, and requisitions or purchases foodstuffs. Selects and develops recipes. May maintain time and payroll records.

315.381 Cook

Prepares and cooks meals in quantities according to menu and number of persons to be served. Plans menus. May serve meals. May order supplies and keep records and accounts. May supervise activities of one or more workers who assist in preparing and serving meals.

317.887 Cook Helper

Assists cook in preparing foods by performing routine duties of a lesser skill.

316.781 Meat Cutter (Meat Butcher)

Cuts, trims, and bones meats to prepare them for cooking, using knives, saw and cleaver. Chops or grinds meats. Shapes and ties roasts. May clean fowl and fish.

313.781 Baker (Bread Baker or Ovenman)

Prepares bread, rolls, muffins, and biscuits according to recipe. May bake pies, cakes, cookies, and other pastries.

355.878 Dietary Aide - Tray-line Worker

Prepares and delivers food trays to patients. Apportions food servings according to diet list. Places servings in blender to make foods for soft or liquid diets. Collects dirty dishes. Washes dishes and cleans work area.

319.138 Food Service Supervisor

Trains and supervises employees engaged in serving food in hospital and similar institutions and in maintaining cleanliness of food service areas and equipment. Keeps records. Requisitions supplies and equipment.

361.884 Laundress

Washes, dries and irons articles using equipment such as hand iron and small washing and drying machines.

382.884 Maintenance-General

Keeps building in clean and orderly condition and tends furnace and boiler. Takes care of yard and keeps walk clear of snow and debris.

METHOD OF COMPUTING REPLACEMENTS

The respondents reported the number of withdrawals expected in four and nine years in each of the occupations studied. The instructions stated that only those who withdrew from the health field for such reasons as marriage, starting a family, entering another field of employment, or retirement should be included. Persons who left one hospital for another or who left a convalescent home to work for a doctor were not to be counted as a withdrawal. These persons remain in the health field and training a replacement for them is not involved on a community-wide basis.

The total employed by and the total withdrawals from the respondents were tabulated for each occupation for four and nine year periods. From these totals the annual rate of withdrawals from the employed were computed. These rates were then applied annually to the total of currently employed plus replacements plus expansion which yielded annual replacement needs. The annual needs were then totalled to show the four and nine year replacements needed to meet the indicated employment goals in the area.